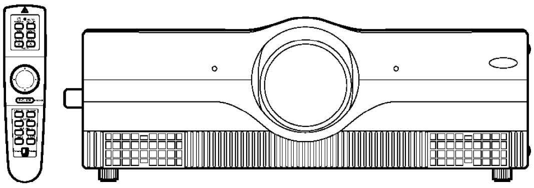
VED0103310C5
D10

Service Manual

LCD Projector

PT-L6500U / PT-L6500E / PT-L6600U / PT-L6600E / PT-L6500UL / PT-L6500EL / PT-L6600UL / PT-L6600EL



SPECIFICATIONS

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service Manual.

Specifications

Power supply:
PT-L6500U/UL, L6600U/UL: 100 V - 120 V AC, 50 Hz / 60 Hz
PT-L6500E/EL, L6600E/EL: 100 V - 240 V AC, 50 Hz / 60 Hz

Power consumption:
600 W (approx. 9 W in Standby mode with fan inactive)

LCD panel:
Panel size (diagonal): 1.3" (33 mm)
Aspect ratio: 4:3
Micro lens array:
PT-L6500**: Not available
PT-L6600**: Available
Display method: 3 transparent LCD panels (RGB)
Drive method: Active matrix method
Pixels:
PT-L6500**: 786 432 (1 024 × 768) × 3 panels
PT-L6600**: 1 398 784 (1 366 × 1 024) × 3 panels

Lens (PT-L6500U/E, L6600U/E only):
Powered zoom: 1 — 1.3
Powered focus control: F = 1.7 — 2.3, f = 49.1 — 63.8

Lamp:
2 UHM lamps with 220 W rating each

Luminosity:
3 600 lm (ANSI)

Scanning frequency:
Composite / S-Video
H = 15.74/15.63 kHz, V = 50/60 Hz
RGB signal
H = 24 — 97 kHz, V = 50 — 120 Hz, PIAS (Panasonic Intelligent Auto Scanning) format
Dot clock frequency: under 132 MHz (PT-L6500**),
under 162 MHz (PT-L6600**)
DVI-D signal
VGA60, S-VGA60, XGA60, S-XGA60
YPBPR signal
[480i] H = 15.75 kHz, V = 60 Hz
[480p] H = 31.5 kHz, V = 60 Hz
[625i] H = 15.63 kHz, V = 50 Hz
[720p] H = 45 kHz, V = 60 Hz
[1 035i]H = 33.75 kHz, V = 60 Hz
[1 080i]H = 33.75 kHz, V = 60 Hz

YPBPR signals:
480i, 480p, PAL (625i), 720p, 1 035i, 1 080i

Color system:
6 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / SECAM)

Projection size:
762 mm — 7 620 mm diagonal

Throw distance:
1.4 m — 13.2 m

Optical axis shift:
10:10 — 1:19

Screen aspect ratio:
4:3 (SXGA 5:4)

Projection scheme:
Front / Rear / Desk / Ceiling (Menu selection method)

Speakers:
2 oval speakers (4 × 7 cm)

Max. audio output power:
6 W (3 W + 3 W) (stereo)

Connectors:

DVI-D
1 set DVI-D 24-pin

RGB 1 IN
1 set BNC × 5
[YPBPR input] Y: 1.0 V [p-p] including sync. signal, PBPR: 0.7 V [p-p] 75 Ω
[RGB input] 0.7 V [p-p] 75 Ω
G-Sync.: 1.0 V [p-p] 75 Ω
HD/SYNC: TTL-compatible, high impedance with auto active High/Low switching
VD: TTL-compatible, high impedance with auto active High/Low switching

RGB 2 IN
High-density D-sub 15-pin connector (female) × 1
[YPBPR input] Y: 1.0 V [p-p] including sync. signal, PBPR: 0.7 V [p-p], 75 Ω
[RGB input] 0.7 V [p-p] 75 Ω
G-Sync.: 1.0 V [p-p], 75 Ω
HD/SYNC: TTL-compatible, high impedance with auto active High/Low switching
VD: TTL-compatible, high impedance with auto active High/Low switching

AUDIO IN (for RGB 1 / 2)
1 set stereo mini jack, 0.5 V [rms]

VIDEO IN
BNC × 1, 1.0 V [p-p] 75 Ω

S-VIDEO IN
4-pin mini DIN × 1, Y: 1.0 V [p-p], C: 0.286 V [p-p] 75 Ω

AUDIO IN (for S-VIDEO / VIDEO)
RCA jack × 2 (L/R), 0.5 V [rms]

AUDIO OUT
Stereo mini jack (monitor output, stereo compatible) × 1,
0 V [rms] — 2.0 V [rms] (variable)

RGB OUTPUT
High-density D-sub 15-pin connector (female) × 1
[YPBPR output] Y: 1.0 V [p-p] including sync. signal, PBPR: 0.7 V [p-p] 75 Ω
[RGB output] 0.7 V [p-p] 75 Ω
G-Sync.: 1.0 V [p-p] 75 Ω
HD: TTL-compatible, high impedance
VD: TTL-compatible, high impedance

SERIAL (IN / OUT)
1 set D-sub 9-pin connector (female / male)
RS-232C compatible, For PC control

REMOTE
D-sub 9-pin connector (female) × 1
For wired mode

WIRED (IN / OUT)
1 set M3 jack
Wired remote control, For daisy-chain control

USB IN
Type B 4-pin square connector
For wired mouse

USB OUT
Type A 4-pin square connector
For Daisy-chain control, Max. 5 V / 0.5 A

Power cord:
2.5 m

Cabinet:
Molded plastic

Dimensions:
Width: 495 mm
Height: 179 mm
Length
PT-L6500U/E, L6600U/E: 495 mm
PT-L6500UL/EL, L6600UL/EL: 494 mm

Weight:
PT-L6500U/E, L6600U/E: 13.8 kg
PT-L6500UL/EL, L6600UL/EL: 12.6 kg

Operating environment:
Temperature: 0 ℃ — 40 ℃
Humidity :20 % — 80 % (no condensation)

<Remote control unit>
Power supply :3 V DC (Type-AAA dry batteries × 2)
Operating range: Approx. 7 m (when operated directly in front of signal receptor)
Dimensions:
Width: 33 mm
Height: 40 mm
Length: 168 mm
Weight:108 g (including batteries)

Accessories:
Remote control unit (N2QAEA000003): 1
Dry battery for remote control unit (R03NPA): 2
Power cord: PT-L6500U/UL, L6600U/UL: 1
PT-L6500E/EL, L6600E/EL : 1
RGB signal cable (for VGA) (K1HB15FA0001): 1 (3.0 m)
USB cable (K1HB04FD0001): 1 (3.0 m)
Wired cable for remote control (K1EA03NA0001): 1 (15 m)
Lens cover : 1
Conversion plug: 1
Exhaust guide: 1set

Options:
Ceiling mount bracket: ET-PKL6500, ET-PKL6500S
Short focus zoom lens (for PT-L6500UL/EL, L6600UL/EL): ET-LE101
Medium focus zoom lens (for PT-L6500UL/EL, L6600UL/EL): ET-LE200
Long focus zoom lens (for PT-L6500UL/EL, L6600UL/EL): ET-LE300
Fixed focus lens (for PT-L6500UL/EL, L6600UL/EL): ET-LE050

- Design and specifications are subject to change without notice.
- Weight and dimensions shown are approximate.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

Caution: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Warning: To assure continued FCC emission limit compliance, use only the provided grounded power supply cord and shielded interface cable with ferrite core when connecting this device to a computer. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate this device.

Note: This LCD Projector may only be used in a commercial, business or industrial environment.

1. Safety Precautions

1.1. General Guidelines

- **For continued safety, no modification of any circuit must be attempted.**
- **Unplug the power cord from the power outlet before disassembling this projector.**
- **It is advisable to use an isolation transformer in the AC power line before the service.**
- **Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.**
- **After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.**
- **After the service, check the leakage current to prevent the customer from getting an electric shock.**

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.
Be sure to use a voltmeter having the performance described in Table 1.

Fig. 1

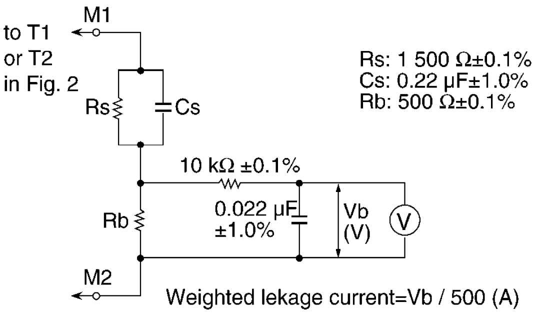
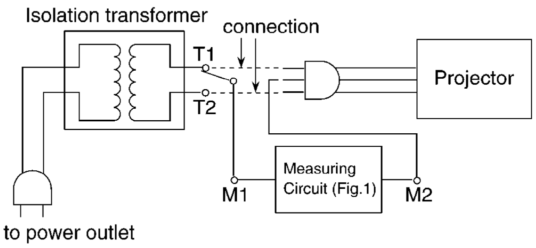

M1
to T1
or T2
in Fig. 2
Rs
Cs
Rs: 1 500 Ω±0.1%
Cs: 0.22 μF±1.0%
Rb: 500 Ω±0.1%
10 kΩ ±0.1%
0.022 μF
±1.0%
Rb
Vb
(V)
V
M2
Weighted lekage current=Vb / 500 (A)

Table 1

	Performance
Voltmeter (rms reading)	Accuracy: ≤ 2% Input resistance: ≥ 1 MΩ Input capacitance: ≤ 200 pF Frequency range: 15 Hz to 1 MHz

Fig. 2


Isolation transformer
connection
T1
T2
Projector
Measuring Circuit (Fig.1)
M1
M2
to power outlet

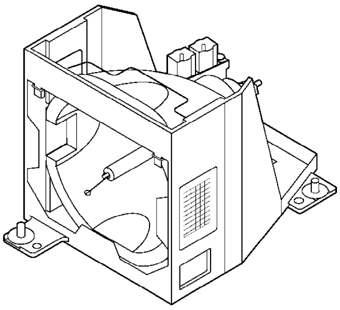
2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.
3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.

- **The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.**
- **Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See Fig. 3)**

Fig. 3



2. Operating Instructions

2.1. Operating Instructions

2.2. Guide to Lens Installation

3. Self-Check Mode

This mode is used to narrow down the location of the failure.

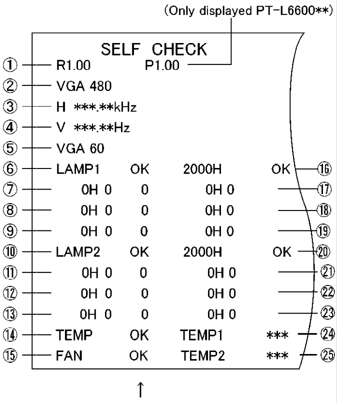
3.1. Procedure to enter the self-check mode

While pressing the VOLUME "-" button on the remote control unit, press the left-arrow "◀" button on the main unit 3 seconds or longer.

Another Method
(can be used for hard to press the button on the main unit, e. g. installed on the ceiling)

1. **Select "OSD" on the OPTION 1 menu.**
2. **MENU → OPTION 1 → OSD**
3. **Press the "ENTER" button on the remote control unit 3 seconds or longer and displays the service support mode menu.**
4. **Select "SELFCHECK" and press on the "ENTER" button on the remote control unit.**

3.2. Self Check Display and Contents



"OK": Normal, "--": Failure, Numeral: Number of times for turning on the lamp

* Above display is an example and the display contents depend on the input signal mode.

	Display Contents	Remarks
①	Microcomputer Version Display	Software Version
②	Resolution Name	Different display according to the input signal
③	Horizontal Signal Frequency	RGB signal reception only
④	Vertical Signal Frequency	
⑤	Signal Name	
⑥	Lamp 1 Abnormality Check	Cause of Lamp Malfunction
⑦	Lamp 1 Cumulative Usage Time	Current Usage Time
⑧		Second Usage Time
⑨		First Usage Time
⑩	Lamp 2 Abnormality Check	Cause of Lamp Malfunction
⑪	Lamp 2 Cumulative Usage Time	Current Usage Time
⑫		Second Usage Time
⑬		First Usage Time
⑭	Temperature Abnormality Check	Cause of Lamp Malfunction
⑮	Fan Stop Check	
⑯	Lamp 1 Judgment for Cumulative Usage more than 2,000 h	Judgment for Replacement Time of Lamp 1
⑰	Lamp 1 Converted Cumulative Usage Time	Converts the cumulative usage time based on LAMP POWER: HIGH.
⑱		
⑲		
⑳	Lamp 2 Judgment for Cumulative Usage more than 2,000 h	Judgment for Replacement Time of Lamp 2
㉑	Lamp 2 Converted Cumulative Usage Time	Converts the cumulative usage time based on LAMP POWER: HIGH.
㉒		
㉓		
㉔	Temp Sensor 1 Measurement Value *1	Around LCD Panel (Detects air filter's choke, etc.)
㉕	Temp Sensor 2 Measurement Value *1	Around Intake Slot

*1 When detected abnormal temperature (high temperature around the LCD panel, large difference between temperature at the intake slot and temperature around the LCD panel), TEMP LED is turned on and the power is shutdown if arriving at the critical temperature.

3.3. Canceling the self-check mode

Press the MENU button on the main unit or the remote control unit.

4. Service Mode

This mode is used to display eight kinds of test patterns (see below) in the four colors (White, Red, Green and Blue).

PT-L6500**
Cross, Horizontal 1 line, Vertical lines on alternate dots, 1-dot pattern, Horizontal 16 lines, Vertical 16 lines, 16 lines crosshatch, No pattern

PT-L6600**
Horizontal 1 line, Vertical lines on every 2 dots, No pattern, Checker, Crosshatch, Cross, 5:4 & 4:3 display frames

Note:

On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for convergence adjustment and so on.

4.1. Procedure to enter the service mode

- Select "FRONT/REAR" on the OPTION 1 menu.
  MENU → OPTION 1 → FRONT/REAR
- While pressing the "VOLUME +" button on the remote control unit, press the left-arrow "◀" button on the main unit 3 seconds or longer to enter the service mode.

Another Method
(can be used for hard to press the button on the main unit, e. g. installed on the ceiling)

- Select "OSD" on the OPTION 1 menu.
- MENU → OPTION 1 → OSD
- Press the "ENTER" button on the remote control unit 3 seconds or longer and displays the service support mode menu.
- Select "SERVICE MODE" and press on the "ENTER" button on the remote control unit.

Note:

In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button on the remote control unit allows the test pattern selection and the left-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

4.2. Canceling the service mode

Press the MENU button on the main unit or the remote control unit.

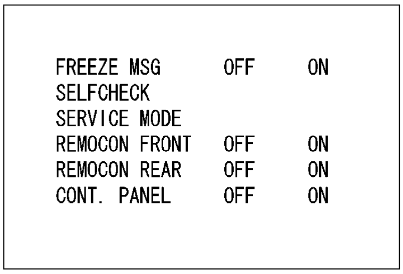
5. Service Support Mode

This projector has Service Support Mode Menu in addition to standard on-screen menus.

5.1. Procedure to enter the service support mode

- Select "OSD" on the OPTION 1 menu.
  MENU → OPTION 1 → OSD
- Press the "ENTER" button on the remote control unit 3 seconds or longer and displays the service support mode menu.

5.2. Service Support Mode Menu and Functions



```
FREEZE MSG      OFF     ON
SELFCHECK
SERVICE MODE
REMOCON FRONT   OFF     ON
REMOCON REAR    OFF     ON
CONT. PANEL     OFF     ON
```

- **FREEZE MSG**
  Switching on/off "FREEZE", "MUTE" and "PICTURE MUTE" on-screen displays
- **SELFCHECK**
  To enter the self-check mode
- **SERVICE MODE**
  To enter the self-check mode
- **REMOCON FRONT**
  Specifies the remote control receiver (front) available or not available.
- **REMOCON REAR**
  Specifies the remote control receiver (rear) available or not available.
- **CONT. PANEL**
  Specifies the rear control panel available or not available.

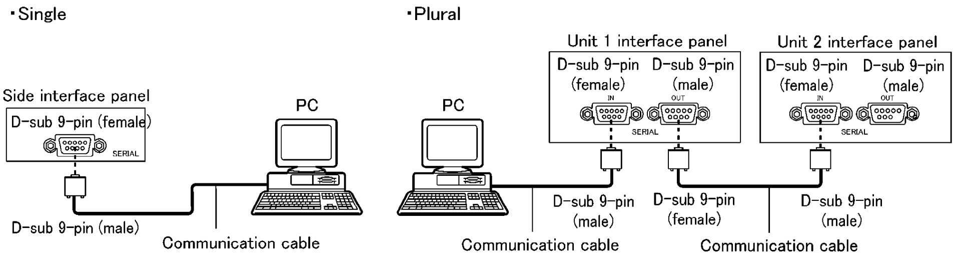
5.3. Canceling the service support mode

Press the MENU button on the main unit or the remote control unit.

6. Using the SERIAL Connector

SERIAL connector which is on the side interface panel of the projector conforms to RS-232C standard. This projector can be controlled by a PC which is connected as shown in "6.1. Connection".
For controlling this projector by a PC, requires communication software on the market, and inputs control commands according to communication settings and basic format below.

6.1. Connection

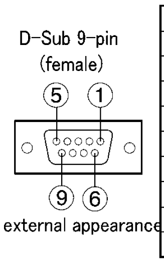

・Single
Side interface panel
D-sub 9-pin (female)
SERIAL
D-sub 9-pin (male)
PC
Communication cable
・Plural
PC
Unit 1 interface panel
D-sub 9-pin (female)
D-sub 9-pin (male)
IN
OUT
SERIAL
Unit 2 interface panel
D-sub 9-pin (female)
D-sub 9-pin (male)
IN
OUT
SERIAL
D-sub 9-pin (male)
D-sub 9-pin (female)
D-sub 9-pin (male)
Communication cable
Communication cable

Note:

Use a proper communication cable which is suitable for the PC to connect SERIAL connector and the PC.

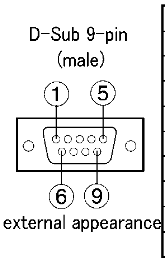
6.2. Pin Layout and Signal Names for SERIAL Connector

6.2.1. SERIAL IN Terminal


D-Sub 9-pin
(female)
⑤
①
⑨
⑥
external appearance

Pin No.	Signal name	Description
①		NC
②	TXD	Send data
③	RXD	Receive data
④		Connected internally
⑤	GND	Ground
⑥		NC
⑦	CTS	Connectedinternally
⑧	RTS	
⑨		NC

6.2.2. SERIAL OUT Terminal


D-Sub 9-pin
(male)
①
⑤
⑥
⑨
external appearance

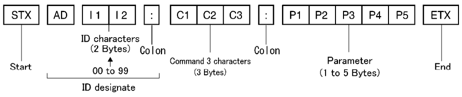
Pin No.	Signal name	Description
①		NC
②	RXD	Receive data
③	TXD	Send data
④		NC
⑤	GND	Ground
⑥		NC
⑦	RTS	Connected internally
⑧	CTS	
⑨		NC

6.3. Communication Settings

Signal Level	Contents		Description
Sync. method	Conforms to RS-232C standard	Asynchronous	Synchronizes every 1 charac bits)
Baud rate		9 600 bps	Data transfer speed
Parity		None	Error detection method
Character length		8 bits	Number of bit composing 1 c
Stop bit		1 bit	Uses stop bit when asynchro method
X parameter		Not used	
S parameter		Not used	

6.4. Basic Format

The data sent from the PC to the projector is transmitted in the format shown below.


STX
AD
I 1
I 2
:
C1
C2
C3
:
P1
P2
P3
P4
P5
ETX
Start
ID characters
(2 Bytes)
00 to 99
ID designate
Colon
Command 3 characters
(3 Bytes)
Colon
Parameter
(1 to 5 Bytes)
End

Cautions:

- When it is unnecessary to designate an ID code, send the format without the part to ID designate it. In this case, the projector sends a call back to the PC irrespective of the projector ID setting.
- Add a parameter when the command function is required of it.
- If sending multiple commands, check that a call back has been received from the projector for one command before sending the next command.

Notes:

- When a command which does not require parameters is sent, the colon (:) is not required.
- If a command is sent with a projector ID specified, the projector will return call back only if the ID contained in the command matches the projector ID or the projector ID is set to ALL.
- Projector ID supported on the RS-232C interface is 00 (ALL) to 99.
- When using control from REMOTE terminal, commands cannot be received at SERIAL terminal.

6.5. Control / Query Commands

Control Commands

Command Name (Parameter format is shown in < >)	Function / Contents	Call back from Projector (Parameter format is shown in < >)	Minimum Value of Parameter	Ma V Pa
AMT : <on_off>	AUDIO MUTE	AMT	0	
AUD	VOLUME DOWN	AUD		
AUU	VOLUME UP	AUU		
AVL : <pl>	VOLUME	AVI	0	
DSG : <user mode>	USER MODE DELETE	DSG	-	
<U01>	USER 1			
<U02>	USER 2			
<U03>	USER 3			
DZD	D. ZOOM DOWN	DZD		
DZU	D. ZOOM UP	DZU		
FC1	FUNCTION1	FC1		
IIS : <input signal>	INPUT SELECT	IIS	-	
LPM <lamp mode>	LAMP SELECT	LPM	0	
MSG : <user mode>	USER MODE ENTRY	MSG	-	
<U01>	USER 1			
<U02>	USER 2			
<U03>	USER 3			
OAS	AUTOSETUP	OAS		
OBC : <back color>	BACK COLOR	OBC	0	
OCD	CURSOR DOWN	OCD		
OCL	CURSOR LEFT	OCL		
OCR	CURSOR RIGHT	OCR		
OCU	CURSOR UP	OCU		
OEN	ENTER	OEN		
OF1 : <function>	FUNCTION 1	OF1	0 0	2 1
OFC <focus>	FOCUS	OFC	-90	
OFZ : <pl>	FREEZE	OFZ	0	
OID : <off_on>	OSD	OID	0	
OIL : <installation>	INSTALLATION	OIL	0	
OIX (TH-L6500** only)	INDEX WINDOW	OIX		
OKS : <pl>	KEYSTONE	OKS	-32	
OLG : <language>	LANGUAGE	OLG	-	
OLP : <lamp power>	LAMP POWER	OLP	0	
OLS : <lens shift>	LENS SHIFT	OLS	-90	
OMN	MENU	OMN		
OMT : <on_off>	VIDEO MUTE	OMT	0	

Command Name (Parameter format is shown in < >)	Function / Contents	Call back from Projector (Parameter format is shown in < >)	Minimum Value of Parameter	Ma V Pa
ORF : <RGB format>	RGB FORMAT	ORF	0	
OSH	SHUTTER	OSH		
OSI : <pl>	SET ID	OSI	0(ALL)	
OST	STANDARD	OST		
OVL : <pl>	LINEARITY	OVL	0	
OZM : <zoom>	ZOOM	OZM	-90	
POF	POWER OFF	POF		
PON	POWER ON	PON		
VBR : <pl>	BRIGHT	VBR	0	
VCN : <pl>	CONTRAST	VCN	0	
VCO : <pl>	COLOR	VCO	0	
VCP : <pl>	CLOCK PHASE	VCP	0	
VDC : <pl>	DOT CLOCK	VDC	0	12
VHP : <pl>	POSITION	VHP	0	25
VPM : <pictur mode> <DYN> <NAT>	PICTURE MODE Dynamic Natural	VPM	-	
VS1 : <s1 signal>	S1 SIGNAL	VS1	0	
VSG : <signal mode>	SIGNAL MODE SET DISPLAY MODE SET	VSG	-	
VSR : <pl>	SHARPNESS	VSR	0	
VSZ : <pl>	VIDEO SIZE	VSZ	0	
VTN : <pl>	TINT	VTN	0	
VVP : <pl>	V-POSITION	VVP	0	12 (V
VWB : <pl>	WHITE BALANCE BLUE	VWB	0	
VWG : <pl>	WHITE BALANCE GREEN	VWG	0	
VWR : <pl>	WHITE BALANCE RED	VWR	0	

***1**
The value in parentheses shows that the input signal is S-VGA or lower resolution.

Query Commands

Query Command	Contents	Call back from Projector (Parameter format is shown in <
Q$L :<hour>		**<acctch>**
QAM		**<off_on>**
QAS		**<autosetup>**
QAV		**<pl>**
QBC		**<back color>**
QCP		**<pl>**
QDC		**<pl>**
QDI		**<off_on>**
QF1		**<function>**
QFZ		**<off_on>**
QHP		**<pl>**
QIN		**<input signal>**
QIX (PT-L6500 only)**		**<index window>**
QKS		**<pl>**
QLG		**<language>**
QLP		**<lamp power>**
QMT		**<off_on>**
QPM		**<NAT>=Natural, <DYN>=Dynamic**
QPW		**<power condition>**
QRF		**<RGB format>**
QS1		**<s1 signal>**
QSG		**<signal mode>**
QSH		**<off_on>**
QSI	**SET ID**	**<id>**
QSL		**<lamp mode>**
QSP		**<installation>**
QVB		**<pl>**
QVC		**<pl>**
QVL		**<pl>**
QVP		**<pl>**
QVR		**<pl>**
QVS		**<pl>**
QVT		**<pl>**
QVZ		**<pl>**
QWB		**<pl>**
QWG		**<pl>**
QWR		**<pl>**

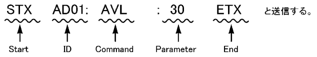
Parameters

Parameter Format	Parameter Size (Byte)	Parameter Definition
<acctch>	4	Decimal notation without plus/minus sign: 000 9999 hours
<auto setup>	1	0 = Autosetup in process, 1 = Autosetup in sto
<back color>	1	0 = BLUE, 1 = BLACK
<function>	1	PT-L6500** 0 = INDEX WINDOW, 1 = MUTE, 2 = STANDAR PT-L6600** 0 = MUTE, 1 = STANDARD
<hour>	1	1 = LAMP 1, 2 = LAMP 2
<id>	2	0 = ALL, 1 = 1, 2 = 2, ..., 99 = 99
<index window>	1	0 = Index window OFF, 1 = Index window ON (= Index window ON (75%), 3 = Index window O
<input signal>	3	VID = VIDEO, SVD = S-VIDEO, RG1 = RGB1, R RGB2, DVI = DVI
<installation>	1	0 = FRONT/DESK, 1 = REAR/DESK, 2 = FRONT CEILING, / 3 = REAR/CEILING
<lamp mode>	1	0 = DUAL, 1 = SINGLE, 2 = SINGLE 1, 3 = SING
<lamp power>	1	0 = HIGH, 1 = STD
<language>	3	ENG = English, DEU = German, FRA = French, Spanish, / ITA = Italian, JPN = Japanese, CHI =
<off_on>	1	0 = OFF, 1 = ON
<pl>	3 (provided that approves of 1 byte or 2 bytes when control)	Decimal notation without plus/minus sign (0 to Decimal notation with plus/minus sign (-99 to [Returns 3 bytes call back from the projector. notation without plus/minus sign (000, 001, 00 999), Decimal notation with plus/minus sign (- 01, +00, +01, +02, ..., +99)]
<power condition>	3	000 = Power OFF, 001 = Power ON
<RGB format>	1	0 = RGB, 1 = YPBPR
<s1 signal>	1	[VIDEO/RGB] 0 = 4:3, 1 = 16:9, 2 = S4:3 [S-VIDEO] 0 = AUTO, 1 = 4:3, 2 = 16:9, 3 = S4:3
<signal mode>	3	[VIDEO] AT1 = AUTO1, AT2 = AUTO2, NTS = N = NTSC443, / PAL = PAL, PAN = N-PAL, PAM = SEC = SECAM [RGB] AUT = AUTO, U01 = USER1, U02 = USE USER3

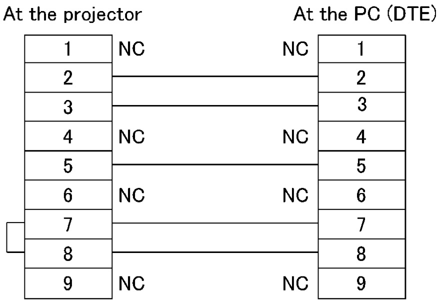
***If an incorrect command is sent from the PC, the "ER401" command will be sent from the projector to the PC.**

[Example]
When controls the audio volume to +30 by a PC

(Sends commands as the following:)


STX
AD01:
AVL
:
30
ETX
と送信する。
Start
ID
Command
Parameter
End

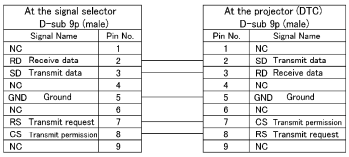
6.6. Communication Cable Specifications


At the projector
At the PC (DTE)
1
2
3
4
5
6
7
8
9
NC
NC
NC
NC
NC
NC
NC
NC
1
2
3
4
5
6
7
8
9

6.7. Signal Selector Connecting Cable Specifications

When connecting to a signal selector (ex. TW-SWS62J), use a cable with specifications below.

Connecting method:
Connects a video signal cable from the signal selector to "VIDEO IN", and an RGB signal cable to "RGB1 IN".



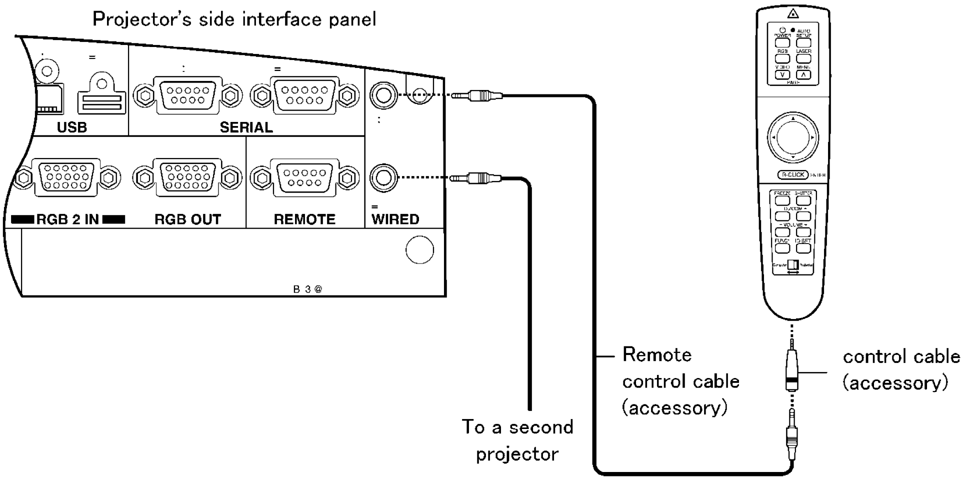
At the signal selector D-sub 9p (male)	
Signal Name	Pin No.
NC	1
RD Receive data	2
SD Transmit data	3
NC	4
GND Ground	5
NC	6
RS Transmit request	7
CS Transmit permission	8
NC	9

At the projector (DTC) D-sub 9p (male)	
Pin No.	Signal Name
1	NC
2	SD Transmit data
3	RD Receive data
4	NC
5	GND Ground
6	NC
7	CS Transmit permission
8	RS Transmit request
9	NC

7. Using the WIRED Connector

Two or more projectors can be controlled by a single remote control unit when WIRED connector, which is on the side interface panel of the projector, is connected as shown in "7.1. Connection".

7.1. Connection


Projector's side interface panel
USB
SERIAL
RGB 2 IN
RGB OUT
REMOTE
WIRED
Remote
control cable
(accessory)
control cable
(accessory)
To a second
projector

7.2. Setting the Remote Control Unit ID

When controlling multiple projectors simultaneously with a single remote control unit, remote control unit ID is set into the projector ID or into "ALL" as described in the steps below:

1. **Push ID SET button on the remote control unit.**
   ID number "ALL" will be displayed on the OSD.
2. **Press the ID SET button 2 seconds or longer.**
   The ID number will change into "1". The ID SET button will now toggle through ID numbers "2", "3", "ALL", "1", and so on each time it is subsequently pushed.
3. **Select the ID number you wish, then push ENTER button on the remote control unit.**
   Note:
   Since the remote control unit ID is set to "ALL" by initial setting, it is not required to set an ID number when the initial setting is not changed.

8. Disassembly Instructions

Warning:

Be sure to unplug the power cord from the power outlet before disassembling this projector.

Caution:

- **While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.**
- **Printed circuit boards and wires must not be pulled forcibly, but be**

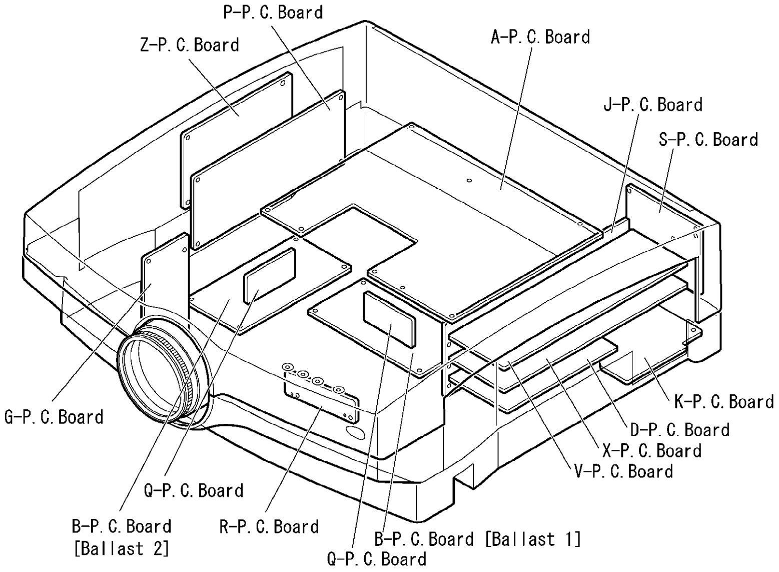
handled carefully.

- Connectors also must be handled carefully.

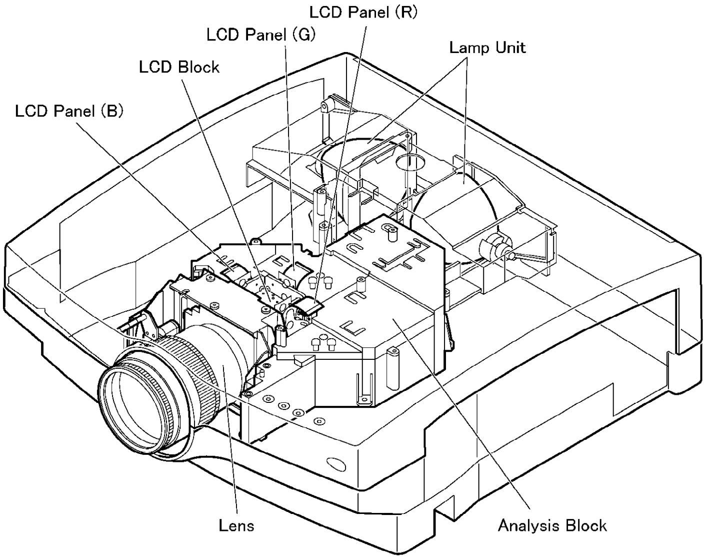
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

8.1. Printed Circuit Board and Main Parts Location

8.1.1. Electrical Parts


P-P. C. Board
Z-P. C. Board
A-P. C. Board
J-P. C. Board
S-P. C. Board
G-P. C. Board
K-P. C. Board
D-P. C. Board
X-P. C. Board
V-P. C. Board
Q-P. C. Board
B-P. C. Board [Ballast 2]
R-P. C. Board
B-P. C. Board [Ballast 1]
Q-P. C. Board

8.1.2. Optical Parts


LCD Panel (R)
LCD Panel (G)
Lamp Unit
LCD Block
LCD Panel (B)
Lens
Analysis Block

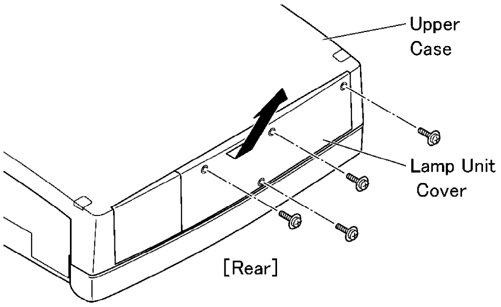
8.2. Removal of Upper Case

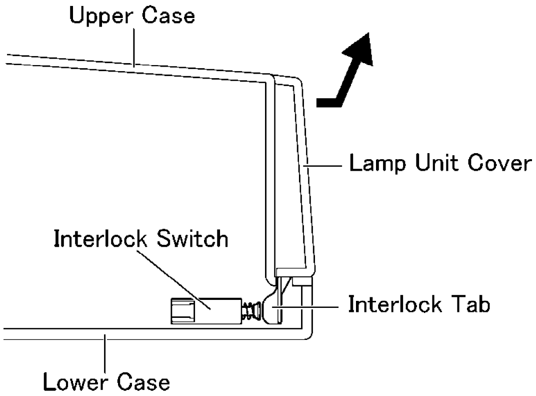
1. Unscrew the 4 screws fixing the lamp unit cover.

2. Pull the upper portion of the cover and lift it up to remove.

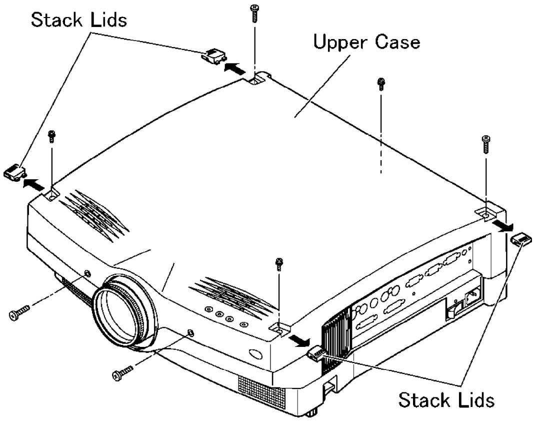
Caution:

Be careful not to break the interlock tab.


Upper Case
Lamp Unit Cover
[Rear]


Upper Case
Lamp Unit Cover
Interlock Switch
Interlock Tab
Lower Case

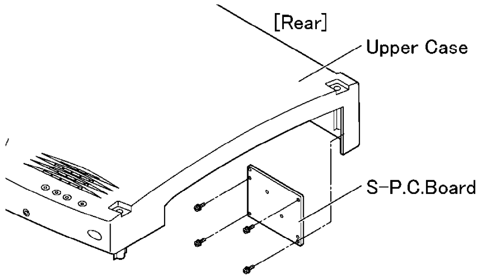
3. Slide the 4 stack lids to remove.
4. Unscrew the 7 screws fixing the upper case.


Stack Lids
Upper Case
Stack Lids

5. Lift the upper case and disconnect the 1 connector for the S-P.C.Board, which is located rear-inside of the upper case, to remove.

8.3. Removal of S-P.C.Board

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Unscrew the 4 screws and remove the S-P.C.Board.

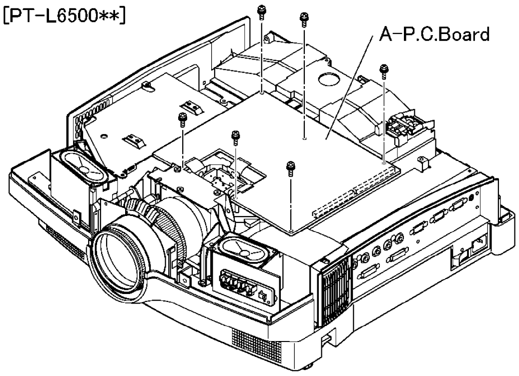


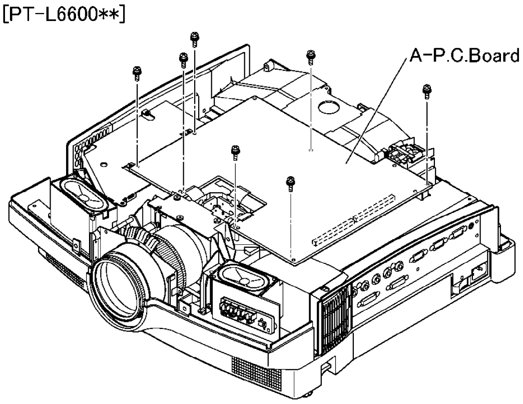
8.4. Removal of A-P.C.Board

1. **Remove the upper case according to the section 8.2. "Removal of Upper Case".**
2. **Disconnect the connectors from/to the A-P.C.Board.**
3. **Unscrew the screws (PT-L6500**: 6, PT-L6600**: 7) fixing the A-P.C.Board.**
4. **While lifting the A-P.C.Board slightly and disconnecting the 2 connectors between A- and J-P.C.Boards, remove the A-P.C.Board.**

Notes:

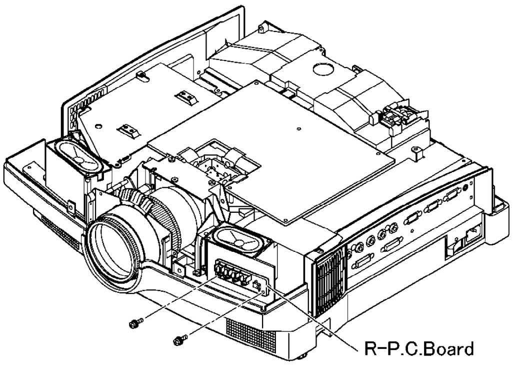
- **If replacing A-P.C.Board, read the microcomputer and gamma data from the old P.C.Board and write it in the new one according to the section 9.5. "Software for Adjustment". If not, remove IC1031 and IC1040 (for L6500) or IC1303 and IC1312 (for L6600) from the old P.C.Board and replace them on the new P.C.Board.**
- **If replacing A-P.C.Board, adjust the Input Level according to the chapter 9 "Measurements and Adjustments".**





8.5. Removal of R-P.C.Board

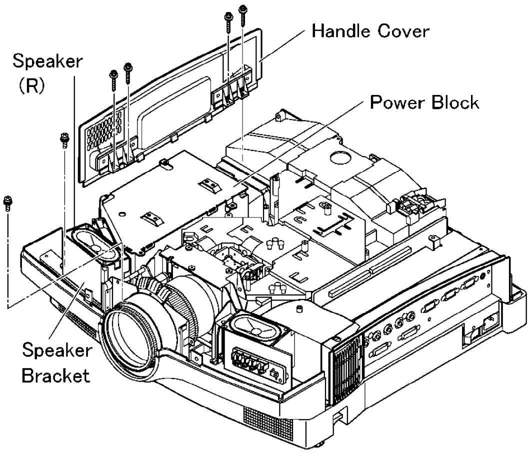
1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Unscrew the 2 screws fixing the R-P.C.Board.



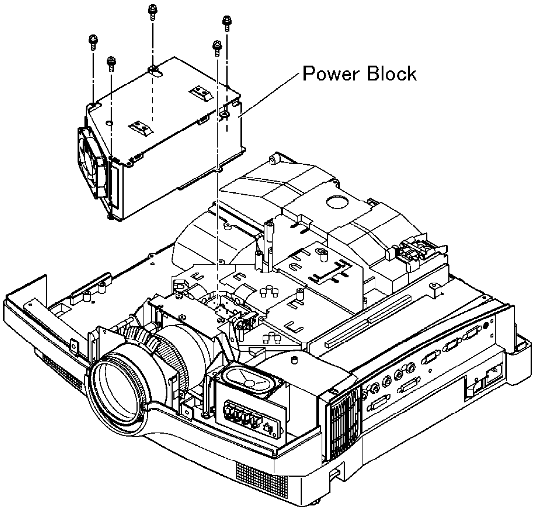
3. Disconnect the 1 connector and remove the R-P.C.Board.

8.6. Removal of P-P.C.Board

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Remove the A-P.C.Board according to the section 8.4. "Removal of A-P.C.Board".
3. Unscrew the 4 screws and remove the handle cover.
4. Unscrew the 2 screws fixing the speaker bracket and remove the speaker (R) block.

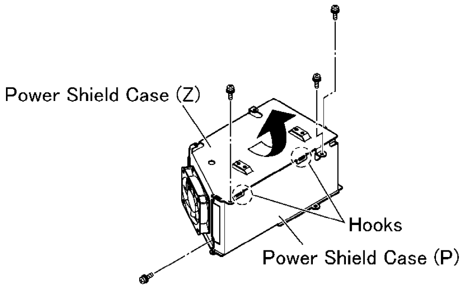

Handle Cover
Speaker
(R)
Power Block
Speaker
Bracket

5. **Unscrew the 5 screws fixing the power block.**


Power Block

6. **Disconnect the connectors from/to the power block and remove it.**

7. **Remove the 4 screws fixing the power shield cases (P) and (Z).**


Power Shield Case (Z)
Hooks
Power Shield Case (P)

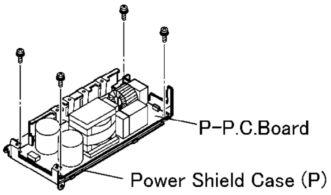
8. **Disconnect the hook of power shield cases (P) and (Z), then while disconnecting the connector between P- and Z-P.C.Boards, separate each part.**

   Caution:

   Pay attention not to break cables between P- and Z-P.C.Boards.

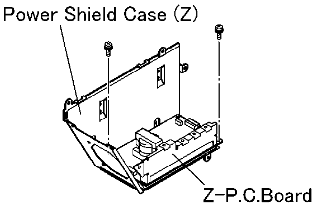
9. **Unscrew the 4 screws and disconnect the 1 connector, then**

remove the P-P.C.Board.


P-P.C.Board
Power Shield Case (P)

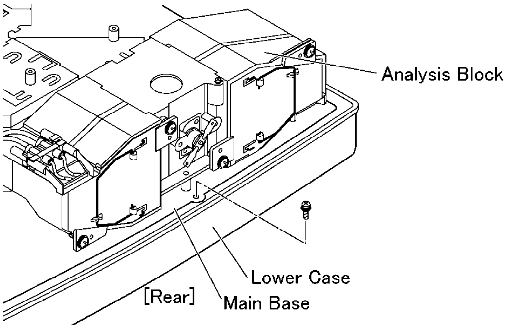
8.7. Removal of Z-P.C.Board

1. Separate the P-P.C.Board part and Z-P.C.Board part according to steps 1-8 in the section 8.6. "Removal of P-P.C.Board".
2. Unscrew the 2 screws and disconnect the 1 connector, then remove the Z-P.C.Board.

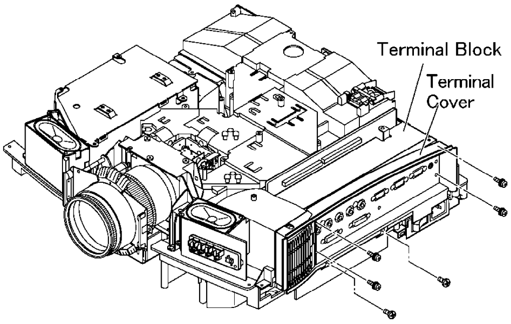

Power Shield Case (Z)
Z-P.C.Board

8.8. Removal of V-P.C.Board

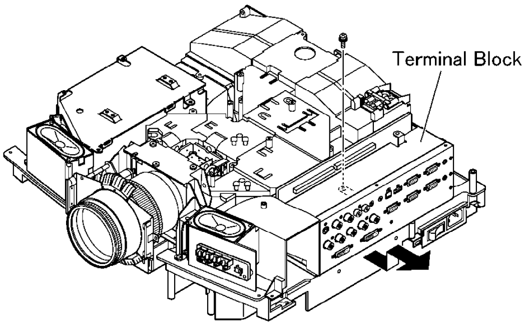
1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Remove the A-P.C.Board according to the section 8.4. "Removal of A-P.C.Board".
3. Remove the 1 screw connecting the lower case and main base.


Analysis Block
Lower Case
[Rear]
Main Base

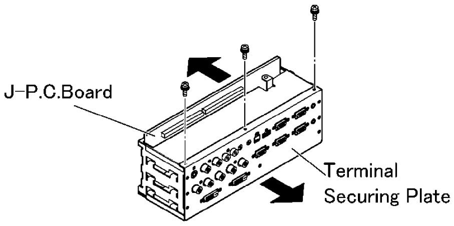
4. Lift the main base and remove the lower case.
5. Unscrew the 6 screws and remove the terminal cover.


Terminal Block
Terminal Cover

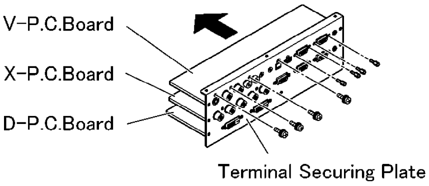
6. **Unscrew the screw and slide the terminal block to remove.**


Terminal Block

7. **Unscrew the 3 screws fixing the terminal securing plate, then while disconnecting the 3 connectors between J- and V-, X-, D-P.C.Boards, separate each part.**


J-P.C.Board
Terminal Securing Plate

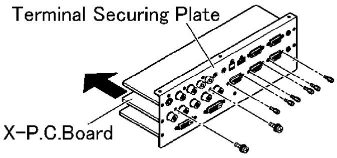
8. **Unscrew the 6 screws on the terminal securing plate and remove the V-P.C.Board.**


V-P.C.Board
X-P.C.Board
D-P.C.Board
Terminal Securing Plate

8.9. Removal of X-P.C.Board

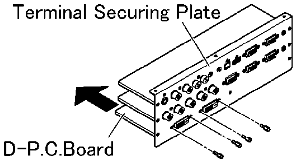
1. **Separate the J-P.C.Board part and V-, X-, D-P.C.Boards part according to steps 1-7 in the section 8.8. "Removal of V-P.C.Board".**

2. **Unscrew the 8 screws on the terminal securing plate and remove the X-P.C.Board.**


Terminal Securing Plate
X-P.C.Board

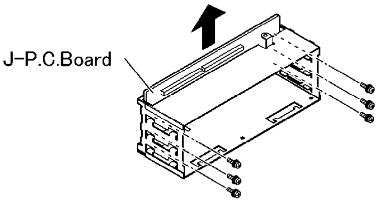
8.10. Removal of D-P.C.Board

1. **Separate the J-P.C.Board part and V-, X-, D-P.C.Boards part according to steps 1-7 in the section 8.8. "Removal of V-P.C.Board".**
2. **Unscrew the 4 screws on the terminal securing plate and remove the D-P.C.Board.**


Terminal Securing Plate
D-P.C.Board

8.11. Removal of J-P.C.Board

1. **Separate the J-P.C.Board part and V-, X-, D-P.C.Boards part according to steps 1-7 in the section 8.8. "Removal of V-P.C.Board".**
2. **Unscrew the 6 screws and remove the J-P.C.Board.**

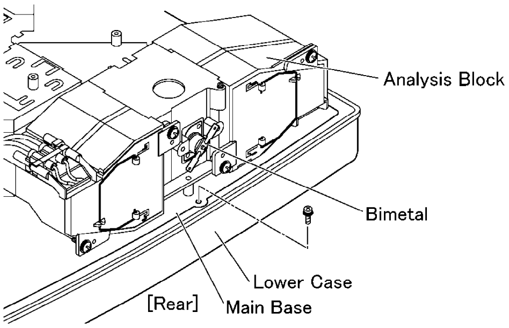


8.12. Removal of K-P.C.Board

1. **Remove the upper case according to the section 8.2. "Removal of Upper Case".**
2. **Remove the 1 screw connecting the lower case and main base.**

3. Lift the main base and remove the lower case.

4. Disconnect the 1 connector on the K-P.C.Board.



5. Stand the unit setting the rear side to lower.

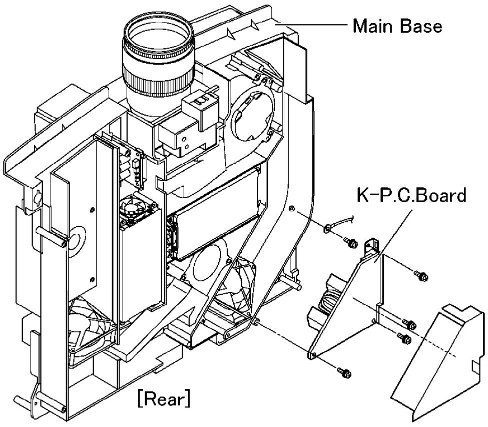
   Cautions:

- If turning the unit upside down, the A-P.C.Board may be damaged.
- On the work, be careful not to fall down the unit.

6. Unscrew the ground lug screw.

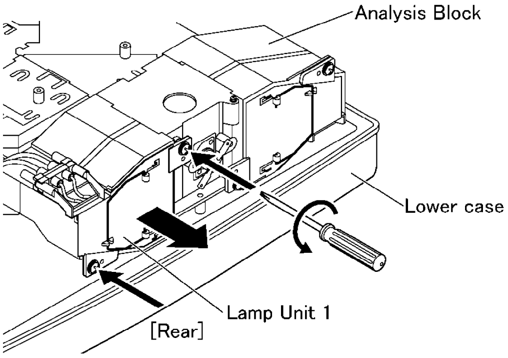
7. Remove the insulation sheet.

8. Unscrew the 4 screws and remove the K-P.C.Board.



8.13. Removal of B-P.C.Board [Ballast 1]

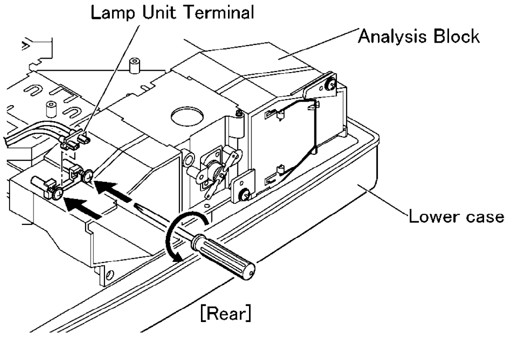
1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Remove the lower case according to steps 2 and 3 in the section 8.12. "Removal of K-P.C.Board".
3. Loosen the 2 lamp unit fixing screws until they turn freely, then hold the handle and pull the lamp unit 1 out to remove.


Analysis Block
Lower case
Lamp Unit 1
[Rear]

Caution:

- Pay attention to handle lamp units (see 1.3.).

4. Unscrew the 2 screws and remove the lamp unit terminal.


Lamp Unit Terminal
Analysis Block
Lower case
[Rear]

5. Stand the unit setting the rear side to lower.

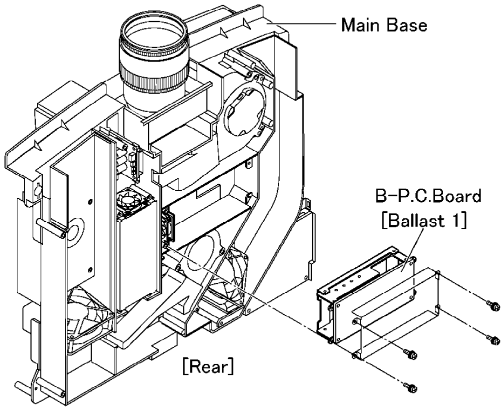
Cautions:

- If turning the unit upside down, the A-P.C.Board may be damaged.

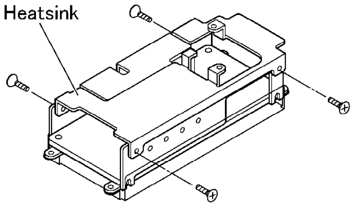
- On the work, be careful not to fall down the unit.

6. Unscrew the 4 screws fixing the B-P.C.Board and remove the insulation sheet.

7. Disconnect the 2 connectors on the B-P.C.Board and remove the B-P.C.Board.

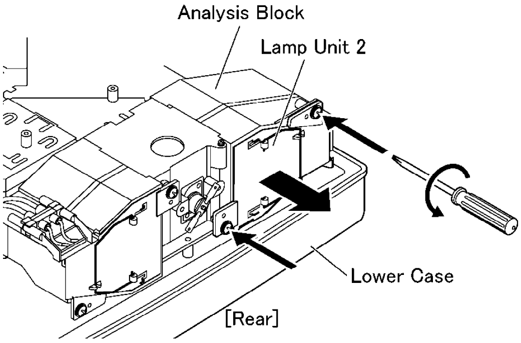

Main Base
B-P.C.Board
[Ballast 1]
[Rear]

8. Unscrew the 4 screws and remove the heatsink.



8.14. Removal of B-P.C.Board [Ballast 2]

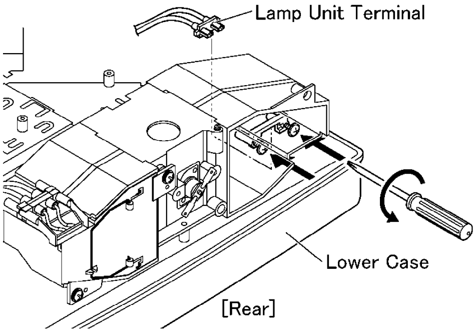
1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Remove the lower case according to steps 2 and 3 in the section 8.12. "Removal of K-P.C.Board".
3. Loosen the 2 lamp unit fixing screws until they turn freely, then hold the handle and pull the lamp unit 2 out to remove.


Analysis Block
Lamp Unit 2
Lower Case
[Rear]

Caution:

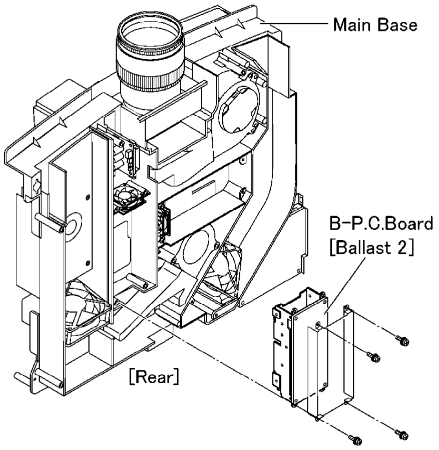
- Pay attention to handle lamp units (see 1.3.).

4. Unscrew the 2 screws and remove the lamp unit terminal.

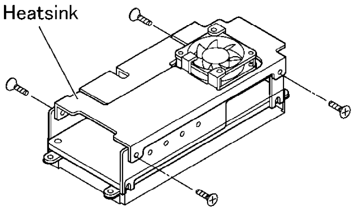

Lamp Unit Terminal
Lower Case
[Rear]

5. Disconnect the connector (A6) from B-P.C.Board to A-P.C.Board.
6. Unscrew the 4 screws fixing the B-P.C.Board and remove the insulation sheet.

7. Disconnect the connector B1 and remove the B-P.C.Board.



8. Unscrew the 4 screws and remove the heatsink.



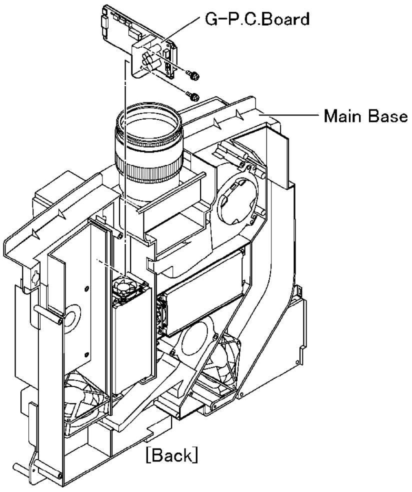
8.15. Removal of G-P.C.Board

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Remove the lower case according to steps 2 and 3 in the section 8.12. "Removal of K-P.C.Board".
3. Stand the unit setting the rear side to lower.

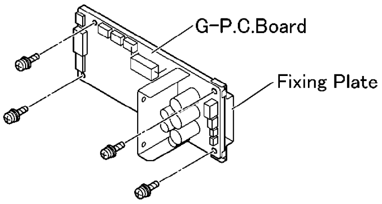
   Cautions:

- If turning the unit upside down, the A-P.C.Board may be damaged.
- On the work, be careful not to fall down the unit.

4. Disconnect the connectors from/to the G-P.C.Board.
5. Unscrew the 4 screws and remove the G-P.C.Board.

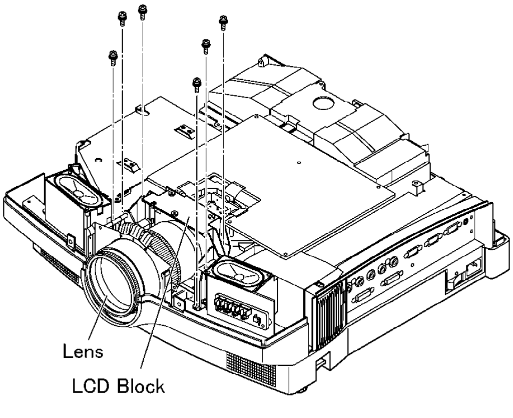

G-P.C.Board
Main Base
[Back]

6. Unscrew the 4 screws and separate the G-P.C.Board and the fixing plate.


G-P.C.Board
Fixing Plate

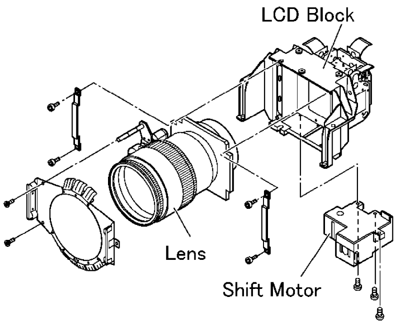
8.16. Removal of Lens / LCD Block

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Disconnect all connectors from to.
3. Unscrew the 6 screws and remove the lens / LCD block.


Lens
LCD Block

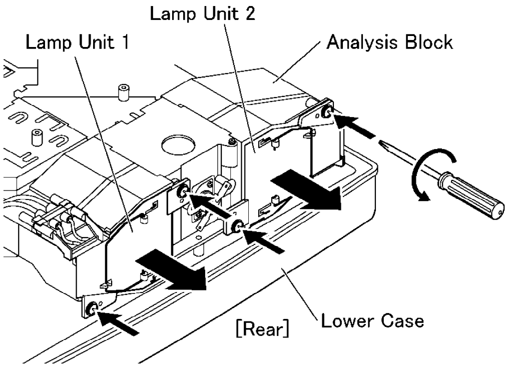
4. Unscrew the 2 screws and remove the shield plate.
5. Unscrew the 3 screws and remove the shift motor.
6. Unscrew the 4 screws fixing the slide clamps and separate the

lens and the LCD block.


LCD Block
Lens
Shift Motor

8.17. Removal of Analysis Block

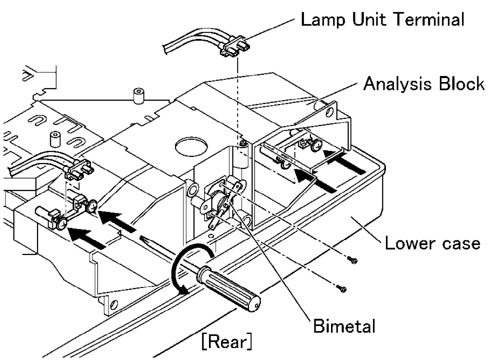
1. **Remove the upper case according to the section 8.2. "Removal of Upper Case".**
2. **Remove the A-P.C.Board according to the section 8.4. "Removal of A-P.C.Board".**
3. **Disconnect the connector between the speaker (L) and G-P.C.Board.**
4. **Loosen the lamp unit fixing screws (2 × 2) until they turn freely, then hold the handle and pull the lamp units 1 and 2 out to remove.**


Lamp Unit 2
Lamp Unit 1
Analysis Block
[Rear]
Lower Case

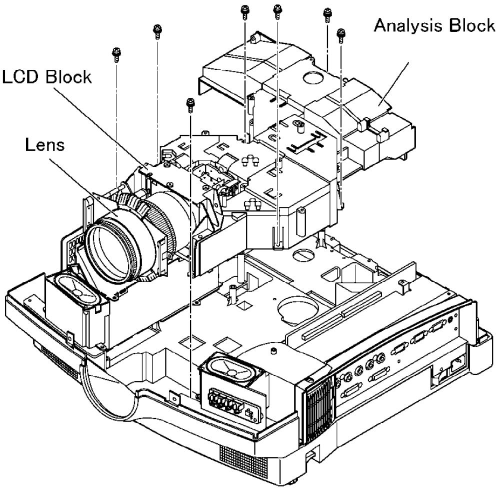
Caution:

- Pay attention to handle lamp units (see 1.3.).

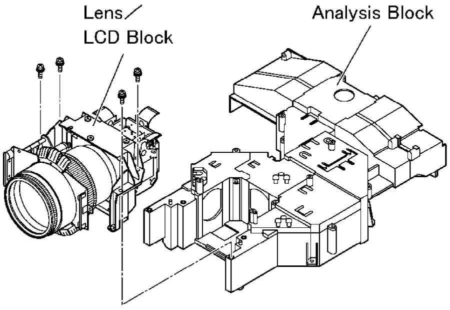
5. **Unscrew the screws (2 × 2) and remove the lamp unit terminals.**
6. **Unscrew the 2 screws and remove the bimetal.**


Lamp Unit Terminal
Analysis Block
Lower case
Bimetal
[Rear]

7. **Unscrew the 5 screws fixing the analysis block and the 2 screws fixing the LCD block, then remove them.**


Analysis Block
LCD Block
Lens

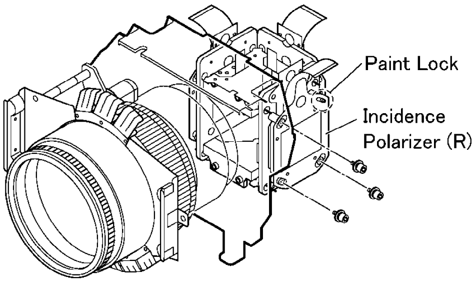
8. **Unscrew the 4 screws fixing the LCD block, then separate the analysis block and the lens/LCD block.**


Lens/
LCD Block
Analysis Block

8.18. Incidence Polarizer Replacement

1. **Remove the upper case according to the section 8.2. "Removal of Upper Case".**
2. **Disconnect the 3 flexible cables of LCD panels connected the A-P.C.Board.**

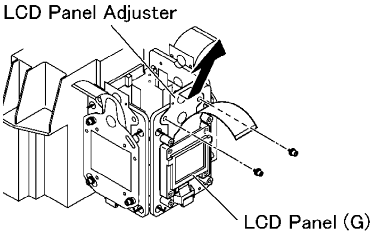
3. Unscrew the 6 screws and remove the lens/LCD block.



[Example]: Incidence Polarizer (R)

4. Peel off the silicone bond to paint lock the incidence polarizer.
- On the working, be careful not to scratch around the paint lock part.

5. Unscrew the 3 screws and remove the incidence polarizer.



[Example]: Incidence Polarizer (R)

6. Install a replacement incidence polarizer.

7. Reassemble the lens/LCD block and connect the flexible cables.

8. After confirming there is no mistake for assemble and connection, turn on the power and perform adjustments.
   Note:
   See the next chapter (9 Measurement and Adjustments) for adjustment method.
   When removing them, be careful not to vary the adjusting result by excessive force.

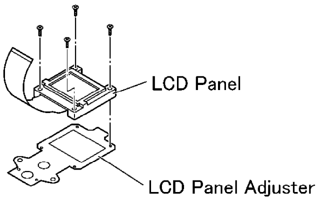
9. After the adjustment, remove the lens/LCD block according to steps 2 and 3.
   Caution:

10. Paint silicone bond on the lock part to secure the incidence polarizer.

11. Reassemble the lens/LCD block and connect the flexible cables.

8.19. LCD Panel Replacement

1. Remove the upper case according to the section 8.2. "Removal of Upper Case".
2. Remove the incidence polarizer according to steps 2-5 in the section 8.18. "Incidence Polarizer Replacement".
3. Use a hexagon head wrench, unscrew the 2 screws fixing the LCD panel adjuster.
4. Unscrew the 4 screws and remove the LCD panel.



5. Install a replacement LCD panel with 4 screws.
6. Screw temporarily 2 screws for the LCD panel adjuster.

Note:

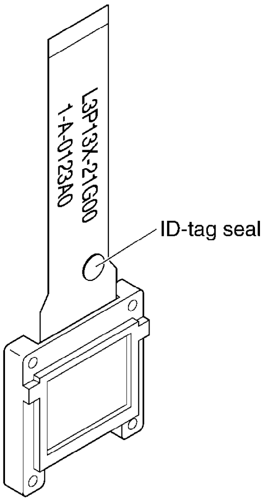
- These screws are tighten after adjustment.

7. Install the incidence polarizer.
8. Reassemble and adjust according to steps 7-11 in the section 8.18. "Incidence Polarizer Replacement".

Note:

- There is difference between adjustment after LCD panel replacement and adjustment after incidence polarizer replacement. See the next chapter (9 Measurement and Adjustments) for details.

8.20. LCD Panel Discrimination



ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

8.21. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.

- When replacing LCD Panel, use a component which has the same part number as the original.

Model number	LCD panel	Combination 2
PT-L6500U/UL PT-L6500E/EL	R	L5BDAXQ00011 (P13XG210 or L3P13X-21G00)
	G	L5BDAXQ00012 (P13XG210 or L3P13X-21G00)
	B	L5BDAXQ00013 (P13XG210 or L3P13X-21G00)
PT-L6600U/UL PT-L6600E/EL	R	L5BDAXR00003 (P13YG250 or L3P13Y-25G00)
	G	L5BDAXR00004 (P13YG250 or L3P13Y-25G00)

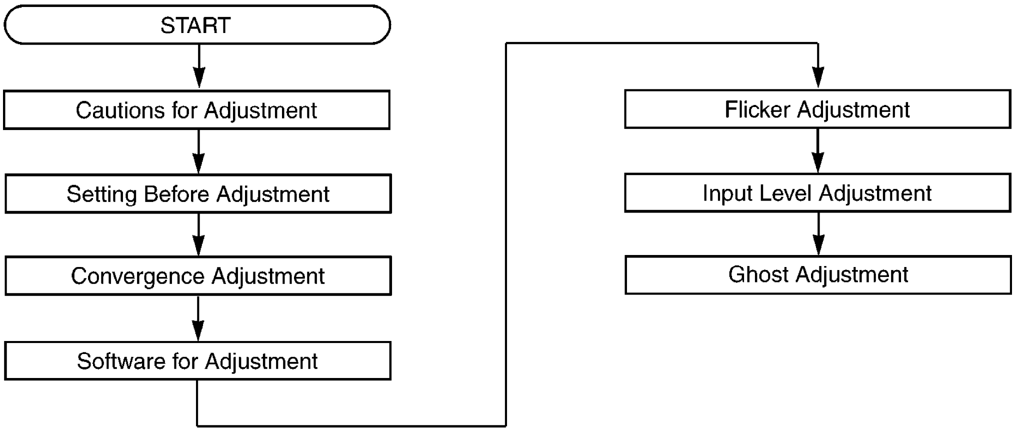
Model number	LCD panel	Combination 2
	B	L5BDAXR00005 (P13YG250 or L3P13Y-25G00)

Note:

- Part number P13XG* (P13YG***) will be changed into L3P13X-***** (L3P13Y-*****) by running.**

9. Measurement and Adjustments

9.1. Adjustment Procedure Flowchart

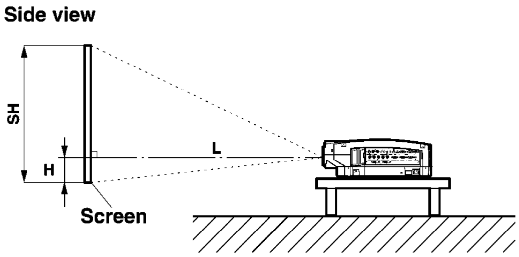

START
Cautions for Adjustment
Setting Before Adjustment
Convergence Adjustment
Software for Adjustment
Flicker Adjustment
Input Level Adjustment
Ghost Adjustment

9.2. Cautions for Adjustment

- **Never turn off the MAIN POWER switch until every fan completely stops.**
- **To maintain and ensure safety, always use the designated components for replacement parts.**
- **If removing any clamps, lead wires or connectors, always place them back in their proper locations.**
- **Be careful not to damage the lead wires or components when using a soldering iron or similar tool.**

9.3. Setting Before Adjustment

1. **Set up the projector to obtain the projection distance below.**
2. **Adjust the ZOOM "+" button on the main unit to obtain the largest size of the picture.**

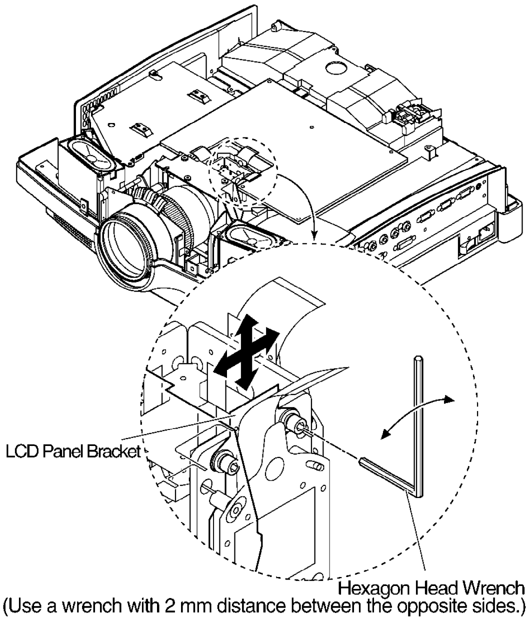

Side view
SH
H
L
Screen

L: Projection distance
SH: Image height
SW : Image width
H: Distance from center of lens to bottom
edge of projected image.

9.4. Convergence Adjustment

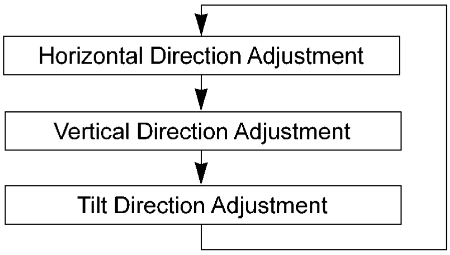
9.4.1. Basic Adjustment Procedure

1. Use a hexagon head wrench, loosen the 2 screws just until the bracket can be moved by your fingers.


LCD Panel Bracket
Hexagon Head Wrench

(Use a wrench with 2 mm distance between the opposite sides.)

2. Repeat the following steps until the red, green and blue crosshatch patterns merge into a white pattern.


Horizontal Direction Adjustment
Vertical Direction Adjustment
Tilt Direction Adjustment

Note:

Because the projected picture may move opposite in direction to

the move of the LCD panel, adjust the convergence observing the real projected picture carefully.

3. **Use a hexagon head wrench, tighten the 2 screws to secure the bracket (LCD panel).**

   Note:

   Be careful not to move the bracket when tighten the screws.

9.4.2. Adjustment after Every LCD Panel or LCD Block Replacement

1. **Display the green crosshatch pattern according to the chapter 4 "Service Mode" and adjust the lens focus.**
2. **Adjust the LCD panel (G) position to place the center position of the crosshatch pattern to the center on the screen.**
3. **Correct the tilt of the green crosshatch pattern.**
4. **Display the white crosshatch pattern according to the chapter 4 "Service Mode".**
5. **Adjust the LCD panels (R) and (B) to merge the red and blue patterns with the green.**

9.4.3. Adjustment after LCD Panel (G) Replacement

1. **Display the white crosshatch pattern according to the chapter 4 "Service Mode" and adjust the lens focus.**
2. **Adjust the LCD panel (G) to merge the green pattern with the red and blue ones.**

9.4.4. Adjustment after LCD Panel (R) Replacement

1. **Display the white crosshatch pattern according to the chapter 4 "Service Mode" and adjust the lens focus.**
2. **Adjust the LCD panel (R) to merge the green pattern with the green and blue ones.**

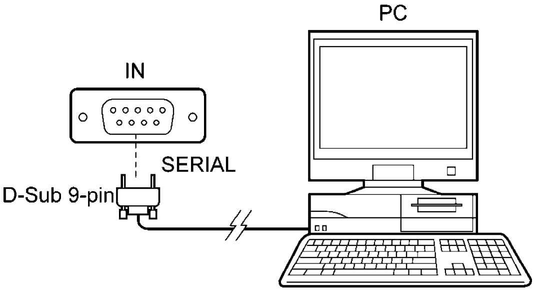
9.4.5. Adjustment after LCD Panel (B) Replacement

1. **Display the white crosshatch pattern according to the chapter 4 "Service Mode" and adjust the lens focus.**
2. **Adjust the LCD panel (B) to merge the green pattern with the green and red ones.**

9.5. Software for Adjustment

9.5.1. Outline

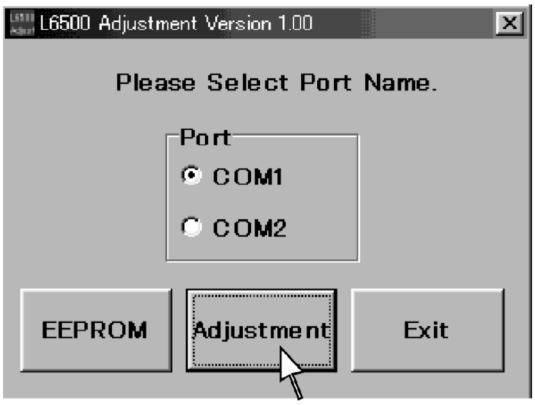
1. This projector needs computer-aided adjustments.
2. After the software adjustments, this projector must be turned off and on again to memorize the settings.
3. Connect the cable between the projector and a PC as shown below.
4. Updating the software will change the version number.



9.5.2. Operating Procedure

1. Insert the floppy disk and run the software program by the keyboard entry.
2. The first menu is the port selection menu.
3. Adjust the projector by selecting the necessary item from the menu in each stage.

9.5.3. Port Selection Menu



L6500 Adjustment Version 1.00

Please Select Port Name.

Port
● COM1
○ COM2

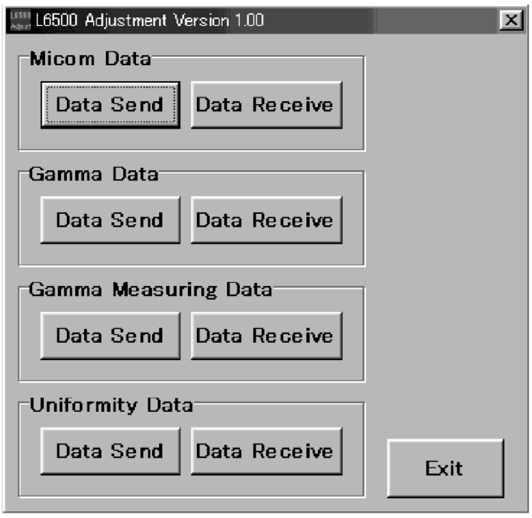
1. Select "COM1" or "COM2" and click "EEPROM" or "Adjustment".
2. Explanation of Buttons

EEPROM:
Displays the EEPROM control menu.

Adjustment:
Displays the adjustment menu.

Exit:
Exits this application.

9.5.4. EEPROM Control Menu


L6500 Adjustment Version 1.00
Micom Data
Data Send
Data Receive
Gamma Data
Data Send
Data Receive
Gamma Measuring Data
Data Send
Data Receive
Uniformity Data
Data Send
Data Receive
Exit

1. Explanation of Buttons

Micom Data Send:
Reads the microcomputer data from the file and sends it to the projector.

Micom Data Receive:
Receives the microcomputer data from the projector and writes it in the file.

Gamma Data Send:
Reads the gamma data from the file and sends it to the projector.

Gamma Data Receive:
Receives the gamma data from the projector and writes it in the file.

Gamma Measuring Data Send:
Reads the LCD panel characteristic data (original gamma data) from the file and sends it to the projector.

Gamma Measuring Data Receive:
Receives the LCD panel characteristic data (original gamma data) from the projector and writes it in the file.

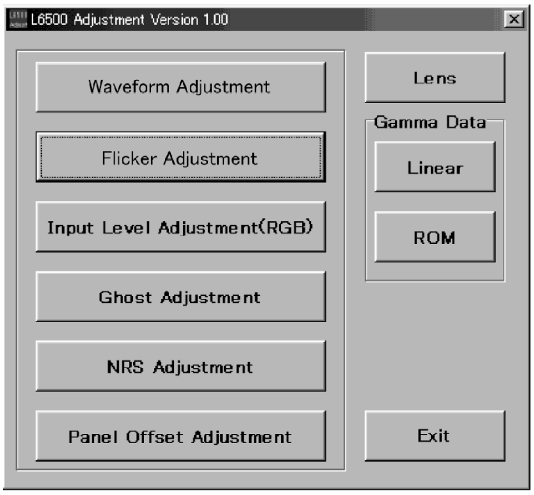
Uniformity Data Send:
Reads the color unevenness correction data from the file and sends it to the projector.

Uniformity Data Receive:
Receives the color unevenness correction data from the projector and writes it in the file.

Exit:
Exits this application.

2. Receive and sending of the data
Click a target button and specify a file name.

9.5.5. Adjustment Menu


L6500 Adjustment Version 1.00
Waveform Adjustment
Flicker Adjustment
Input Level Adjustment(RGB)
Ghost Adjustment
NRS Adjustment
Panel Offset Adjustment
Lens
Gamma Data
Linear
ROM
Exit

Explanation of Buttons

Waveform Adjustment:

This button is not available.

Flicker Adjustment:
Displays the flicker adjustment menu.

Input Level Adjustment (RGB):
Displays the input level adjustment menu.

Ghost Adjustment:
Displays the ghost adjustment menu.

NRS Adjustment:
This button is not available.

Panel Offset:
This button is not available.

Lens:
Displays the lens setting menu.

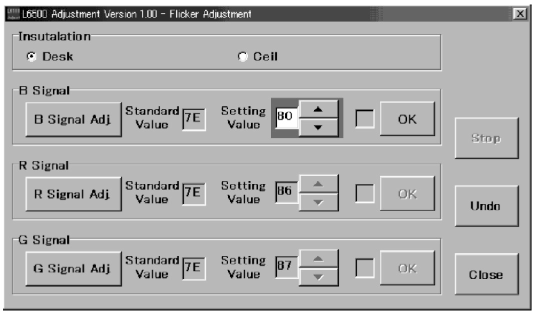
Gamma Data Linear:
This button is only used for factory. (Do not click this button.)

Gamma Data ROM:
This button is only used for factory. (Do not click this button.)

Exit:
Exits this application.

9.6. Flicker Adjustment

9.6.1. Adjustment Menu



L6500 Adjustment Version 1.00 - Flicker Adjustment

Insutalation: ● Desk ○ Ceil

B Signal: Standard Value 7E, Setting Value 80 ☐

R Signal: Standard Value 7E, Setting Value 86 ☐

G Signal: Standard Value 7E, Setting Value 87 ☐

9.6.2. Explanation of Buttons

Desk:
Sets the installation mode to the desk setting and receive the current data.

Ceil:
Sets the installation mode to the ceiling setting and receive the current data.

R Signal Adj.:
Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to becomes active.

G Signal Adj.:
Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to becomes active.

B Signal Adj.:
Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to becomes active.

▲or▼:
Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed in a box and using the TAB or SPACE key allows the move of the box.

OK:
Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER key changes the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8 or 2 key, its color returns to black.

Stop:
Discontinues the communication. (This button is usually set for its inactive mode.)

Undo:
Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:
Closes this menu.

9.6.3. Equipment to be used

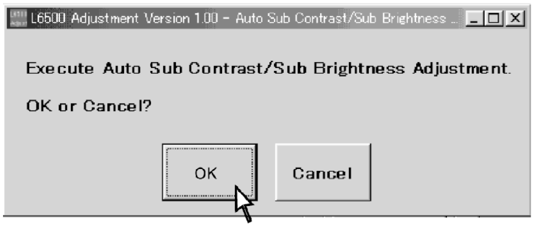
PC, Software for Adjustment

9.6.4. Adjustment Procedure

1. **Display the flicker adjustment menu.**
2. **Set the installation mode to the desk setting.**
3. **Click "R Signal Adj," and the red flicker adjustment pattern will be displayed.**
4. **Minimize the flicker while observing the projected pattern.**
5. **Click "G Signal Adj," and the green flicker adjustment pattern will be displayed.**
6. **Minimize the flicker while observing the projected pattern.**
7. **Click "B Signal Adj," and the blue flicker adjustment pattern will be displayed.**
8. **Minimize the flicker while observing the projected pattern.**
9. **Change the installation mode to the ceiling setting and follow steps 3. to 8. inclusive.**

9.7. Input Level Adjustment

9.7.1. Adjustment Menu


L6500 Adjustment Version 1.00 - Auto Sub Contrast/Sub Brightness ...
OK
Cancel

Execute Auto Sub Contrast/Sub Brightness Adjustment.

OK or Cancel?

9.7.2. Explanation of Buttons

OK:
Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:
Cancels this menu.

9.7.3. Equipment to be used

PC, Software for Adjustment, Signal Generator

9.7.4. Adjustment Procedure

1. Display the input level adjustment menu.

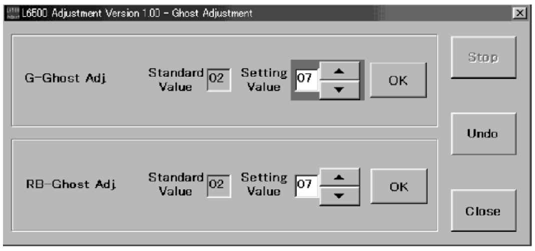
2. Input a window pattern signal.

Note:
Use approx. 15 % window pattern as follows.
Black background (screen width) : White window width = 2 : 1
Black background (screen height) : White window height = 3 : 1

3. Click the OK button.

9.8. Ghost Adjustment

9.8.1. Adjustment Menu


L6500 Adjustment Version 1.00 - Ghost Adjustment
OK
OK
Stop
Undo
Close

G-Ghost Adj Standard Value 02 Setting Value 07

RB-Ghost Adj Standard Value 02 Setting Value 07

9.8.2. Explanation of Buttons

▲or▼:
Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed in a box and using the TAB or SPACE key allows the move of the box.

OK:
Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER key changes the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8 or 2 key, its color returns to black.

Stop:
Discontinues the communication. (This button is usually set for its inactive mode.)

Undo:
Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:
Closes this menu.

9.8.3. Equipment to be used

PC, Software for Adjustment, Signal Generator

9.8.4. Adjustment Procedure

1. Display the ghost adjustment menu.

2. Input a checker pattern signal.

3. Minimize the ghost while observing the projected pattern.

4. Set the value to the point being its optimum value minus 1.

10. Troubleshooting

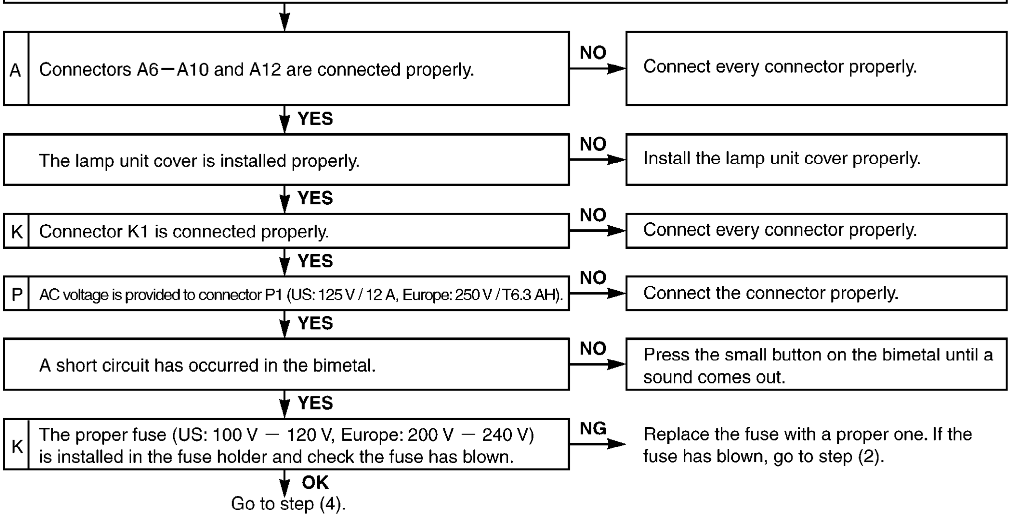
- The letters in the left of the inspection items indicate the P.C.Boards related to their respective descriptions.

Note: A

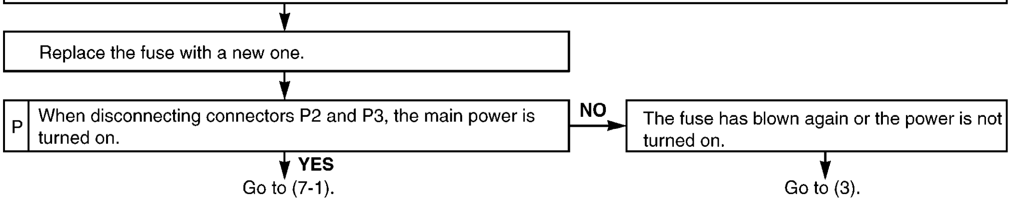
The letter of the alphabet indicates the P.C.Board name.

- If replacing A-P.C.Board, read the microcomputer and gamma data from the old P.C.Board and write it in the new one according to the section 9.5. "Software for Adjustment". If not, remove IC1031 and IC1040 (for L6500) or IC1303 and IC1312 (for L6600) from the old P.C.Board and replace them on the new P.C.Board.
- If replacing A-P.C.Board, adjust the Input Level according to the chapter 9 "Measurements and Adjustments".

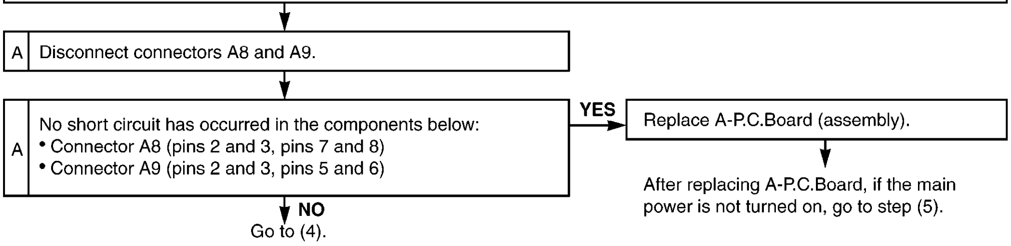
(1)The projector does not become standby mode. (The power status LED does not illuminate red.)


A
Connectors A6—A10 and A12 are connected properly.
NO
Connect every connector properly.
YES
The lamp unit cover is installed properly.
NO
Install the lamp unit cover properly.
YES
K
Connector K1 is connected properly.
NO
Connect every connector properly.
YES
P
AC voltage is provided to connector P1 (US: 125 V / 12 A, Europe: 250 V / T6.3 AH).
NO
Connect the connector properly.
YES
A short circuit has occurred in the bimetal.
NO
Press the small button on the bimetal until a sound comes out.
YES
K
The proper fuse (US: 100 V — 120 V, Europe: 200 V — 240 V) is installed in the fuse holder and check the fuse has blown.
NG
Replace the fuse with a proper one. If the fuse has blown, go to step (2).
OK
Go to step (4).

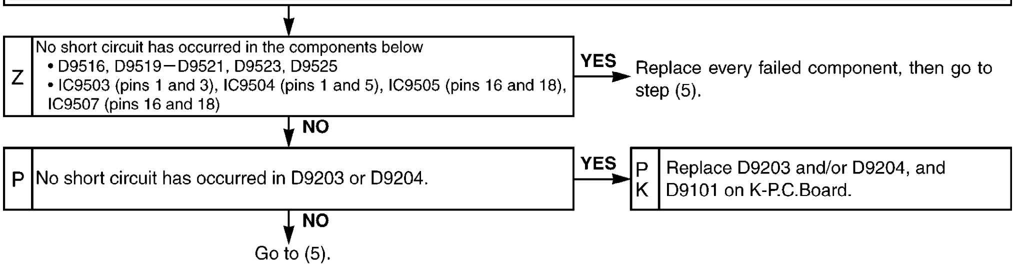
(2) The fuse has blown.


Replace the fuse with a new one.
P
When disconnecting connectors P2 and P3, the main power is turned on.
NO
The fuse has blown again or the power is not turned on.
YES
Go to (7-1).
Go to (3).

(3) The fuse has blown again or the power is not turned on.


A
Disconnect connectors A8 and A9.
A
No short circuit has occurred in the components below:
• Connector A8 (pins 2 and 3, pins 7 and 8)
• Connector A9 (pins 2 and 3, pins 5 and 6)
YES
Replace A-P.C.Board (assembly).
After replacing A-P.C.Board, if the main power is not turned on, go to step (5).
NO
Go to (4).

(4) Disassemble the power block and check the power supply circuit.



No short circuit has occurred in the components below
- D9516, D9519−D9521, D9523, D9525
- IC9503 (pins 1 and 3), IC9504 (pins 1 and 5), IC9505 (pins 16 and 18), IC9507 (pins 16 and 18)

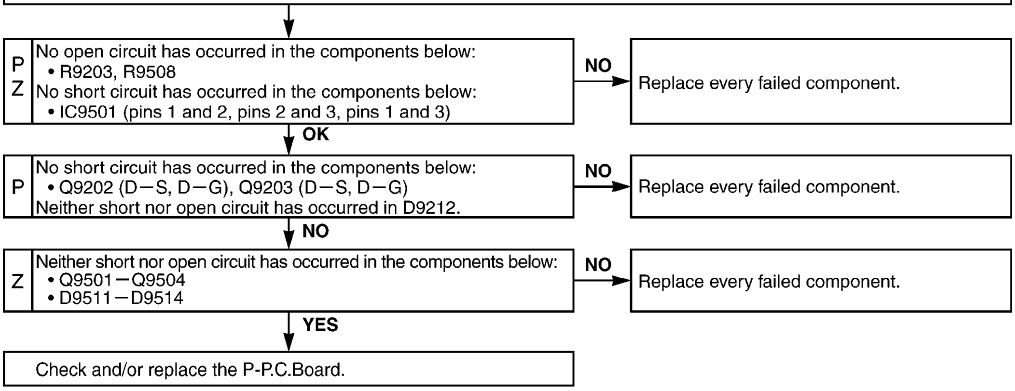
Replace every failed component, then go to step (5).

No short circuit has occurred in D9203 or D9204.

Replace D9203 and/or D9204, and D9101 on K-P.C.Board.

Go to (5).

(5) Common items to check the power supply circuit.



No open circuit has occurred in the components below:
- R9203, R9508

No short circuit has occurred in the components below:
- IC9501 (pins 1 and 2, pins 2 and 3, pins 1 and 3)

Replace every failed component.

No short circuit has occurred in the components below:
- Q9202 (D−S, D−G), Q9203 (D−S, D−G)

Neither short nor open circuit has occurred in D9212.

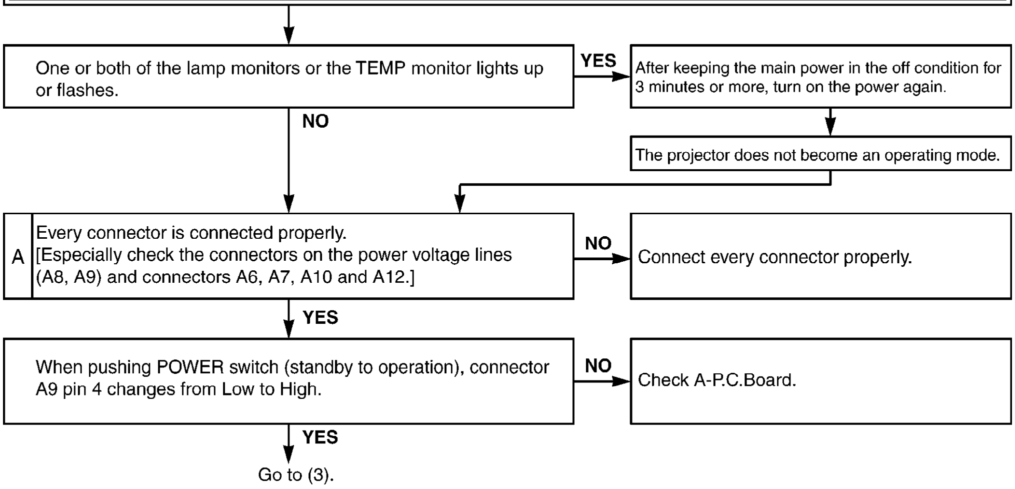
Replace every failed component.

Neither short nor open circuit has occurred in the components below:
- Q9501−Q9504
- D9511−D9514

Replace every failed component.

Check and/or replace the P-P.C.Board.

(6) The projector does not change from standby mode to an operating mode.
(The power status LED does not change from red to green.)



One or both of the lamp monitors or the TEMP monitor lights up or flashes.

After keeping the main power in the off condition for 3 minutes or more, turn on the power again.

The projector does not become an operating mode.

Every connector is connected properly.
[Especially check the connectors on the power voltage lines (A8, A9) and connectors A6, A7, A10 and A12.]

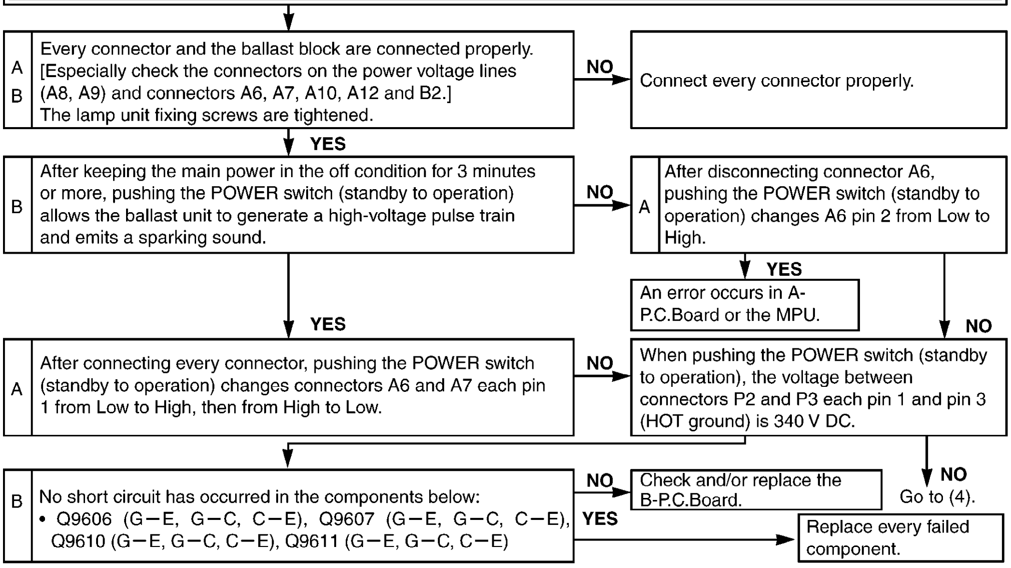
Connect every connector properly.

When pushing POWER switch (standby to operation), connector A9 pin 4 changes from Low to High.

Check A-P.C.Board.

Go to (3).

(7-1) One or both of the lamps light up abnormally.
(One or both of the lamp monitors illuminate.)



A B Every connector and the ballast block are connected properly. [Especially check the connectors on the power voltage lines (A8, A9) and connectors A6, A7, A10, A12 and B2.] The lamp unit fixing screws are tightened.

Connect every connector properly.

B After keeping the main power in the off condition for 3 minutes or more, pushing the POWER switch (standby to operation) allows the ballast unit to generate a high-voltage pulse train and emits a sparking sound.

A After disconnecting connector A6, pushing the POWER switch (standby to operation) changes A6 pin 2 from Low to High.

An error occurs in A-P.C.Board or the MPU.

A After connecting every connector, pushing the POWER switch (standby to operation) changes connectors A6 and A7 each pin 1 from Low to High, then from High to Low.

When pushing the POWER switch (standby to operation), the voltage between connectors P2 and P3 each pin 1 and pin 3 (HOT ground) is 340 V DC.

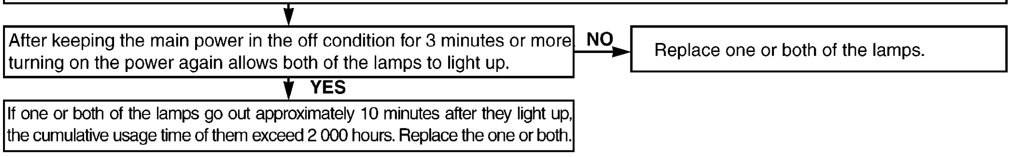
Go to (4).

B No short circuit has occurred in the components below:
- Q9606 (G−E, G−C, C−E), Q9607 (G−E, G−C, C−E), Q9610 (G−E, G−C, C−E), Q9611 (G−E, G−C, C−E)

Check and/or replace the B-P.C.Board.

Replace every failed component.

(7-2) No lamp lights up.
(One or both of the lamp monitors flash.)

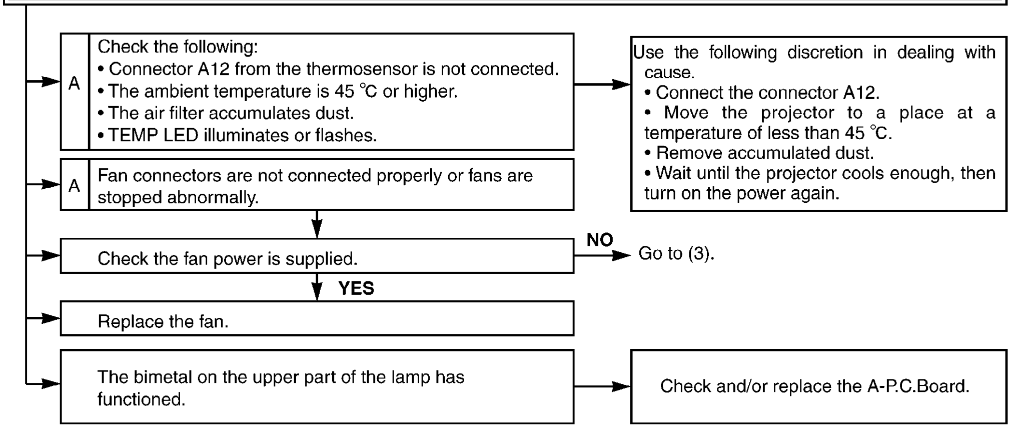


After keeping the main power in the off condition for 3 minutes or more turning on the power again allows both of the lamps to light up.

Replace one or both of the lamps.

If one or both of the lamps go out approximately 10 minutes after they light up, the cumulative usage time of them exceed 2 000 hours. Replace the one or both.

(8) A shutdown occurs.



A Check the following:
- Connector A12 from the thermosensor is not connected.
- The ambient temperature is 45 °C or higher.
- The air filter accumulates dust.
- TEMP LED illuminates or flashes.

Use the following discretion in dealing with cause.
- Connect the connector A12.
- Move the projector to a place at a temperature of less than 45 °C.
- Remove accumulated dust.
- Wait until the projector cools enough, then turn on the power again.

A Fan connectors are not connected properly or fans are stopped abnormally.

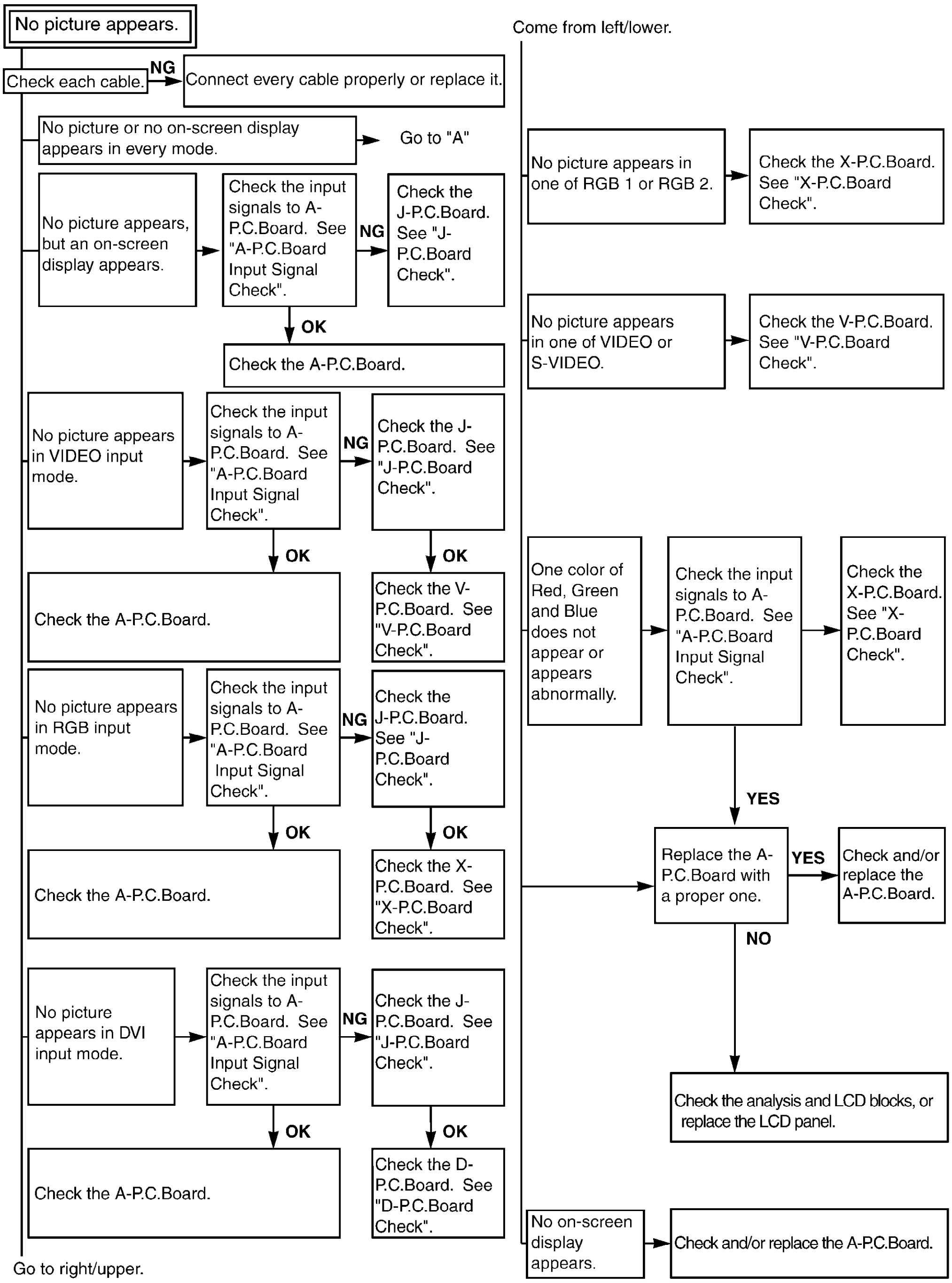
Check the fan power is supplied.

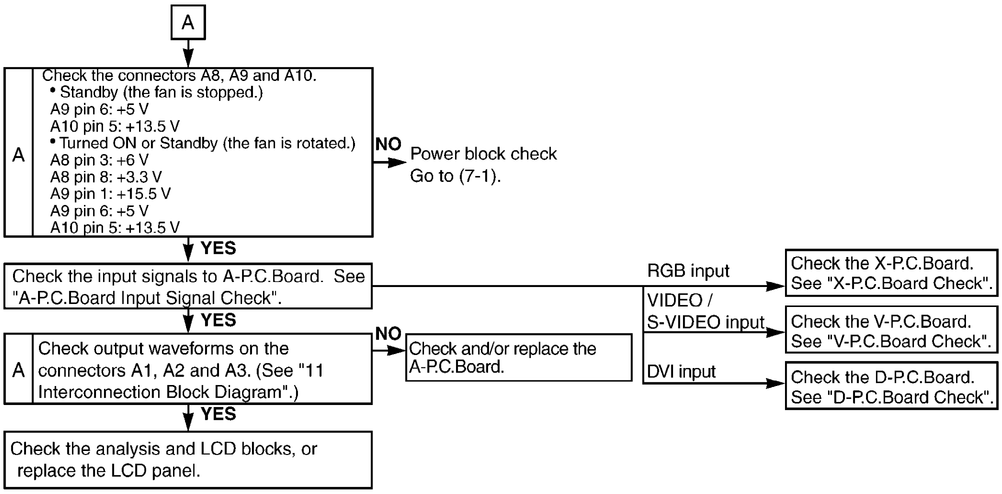
Go to (3).

Replace the fan.

The bimetal on the upper part of the lamp has functioned.

Check and/or replace the A-P.C.Board.


No picture appears.
Check each cable.
NG
Connect every cable properly or replace it.
No picture or no on-screen display appears in every mode.
Go to "A"
No picture appears, but an on-screen display appears.
Check the input signals to A-P.C.Board. See "A-P.C.Board Input Signal Check".
NG
Check the J-P.C.Board. See "J-P.C.Board Check".
OK
Check the A-P.C.Board.
No picture appears in VIDEO input mode.
Check the input signals to A-P.C.Board. See "A-P.C.Board Input Signal Check".
NG
Check the J-P.C.Board. See "J-P.C.Board Check".
OK
OK
Check the A-P.C.Board.
Check the V-P.C.Board. See "V-P.C.Board Check".
No picture appears in RGB input mode.
Check the input signals to A-P.C.Board. See "A-P.C.Board Input Signal Check".
NG
Check the J-P.C.Board. See "J-P.C.Board Check".
OK
OK
Check the A-P.C.Board.
Check the X-P.C.Board. See "X-P.C.Board Check".
No picture appears in DVI input mode.
Check the input signals to A-P.C.Board. See "A-P.C.Board Input Signal Check".
NG
Check the J-P.C.Board. See "J-P.C.Board Check".
OK
OK
Check the A-P.C.Board.
Check the D-P.C.Board. See "D-P.C.Board Check".
Go to right/upper.
Come from left/lower.
No picture appears in one of RGB 1 or RGB 2.
Check the X-P.C.Board. See "X-P.C.Board Check".
No picture appears in one of VIDEO or S-VIDEO.
Check the V-P.C.Board. See "V-P.C.Board Check".
One color of Red, Green and Blue does not appear or appears abnormally.
Check the input signals to A-P.C.Board. See "A-P.C.Board Input Signal Check".
Check the X-P.C.Board. See "X-P.C.Board Check".
YES
Replace the A-P.C.Board with a proper one.
YES
Check and/or replace the A-P.C.Board.
NO
Check the analysis and LCD blocks, or replace the LCD panel.
No on-screen display appears.
Check and/or replace the A-P.C.Board.


A
A
Check the connectors A8, A9 and A10.
• Standby (the fan is stopped.)
A9 pin 6: +5 V
A10 pin 5: +13.5 V
• Turned ON or Standby (the fan is rotated.)
A8 pin 3: +6 V
A8 pin 8: +3.3 V
A9 pin 1: +15.5 V
A9 pin 6: +5 V
A10 pin 5: +13.5 V
NO
Power block check
Go to (7-1).
YES
Check the input signals to A-P.C.Board. See "A-P.C.Board Input Signal Check".
RGB input
Check the X-P.C.Board. See "X-P.C.Board Check".
VIDEO / S-VIDEO input
Check the V-P.C.Board. See "V-P.C.Board Check".
DVI input
Check the D-P.C.Board. See "D-P.C.Board Check".
YES
A
Check output waveforms on the connectors A1, A2 and A3. (See "11 Interconnection Block Diagram".)
NO
Check and/or replace the A-P.C.Board.
YES
Check the analysis and LCD blocks, or replace the LCD panel.

A-P.C.Board Input Signal Check

Check the signals on the terminals below:

- RGB or DVI input mode

  Connector A5

  Ⓐ-31 to Ⓐ-38 、 Ⓑ-31 to Ⓑ-38 —— R

  Ⓐ-23 to Ⓐ-30 、 Ⓑ-23 to Ⓑ-30 —— G

  Ⓐ-15 to Ⓐ-22 、 Ⓑ-15 to Ⓑ-22 —— B

  Connector A4

  Ⓑ-18 —Hsync、 Ⓑ-9 —Clock (RGB/DVI)

  Ⓐ-18 —Vsync、 Ⓐ-9 —Clock (YP$_B$P$_R$)

- VIDEO input mode

  Connector A4

  Ⓐ-42 to Ⓐ-45 、 Ⓑ-42 to Ⓑ-45 —— Y

  Ⓐ-47 to Ⓐ-50 、 Ⓑ-46 to Ⓑ-49 —— UV

  Ⓑ-40 —Hsync

  Ⓐ-40 —Vsync

  Ⓐ-41 —Double-speed Hsync

  Ⓑ-38 —Clock (14M)

  Ⓐ-39 —Clock (28M)

V-P.C.Board Check

- VIDEO is abnormal.
  Check VIDEO IN connector, cable and connector V1.
- S-VIDEO is abnormal.
  Check S-VIDEO IN connector, cable and connector V1.

OK

Replace the V-P.C.Board.

J-P.C.Board Check

- RGB is abnormal.
  Check connectors J1, J2 and J4.
- VIDEO is abnormal.
  Check connectors J1, J2 and J3.
- DVI is abnormal.
  Check connectors J1, J2 and J5.

X-P.C.Board Check

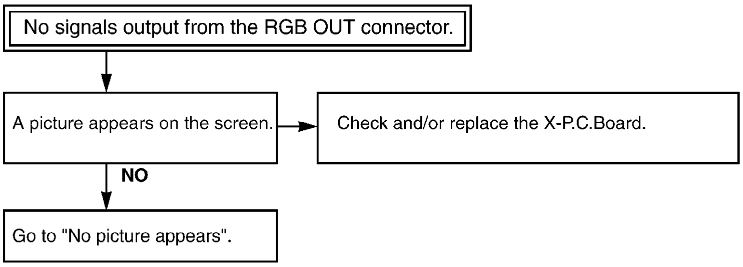
- RGB 1 input is abnormal.
  Check RGB 1 IN connectors, cables and connector X1.
- RGB 2 input is abnormal.
  Check RGB 2 IN connector, cable and connector X1.
- RGB output is abnormal.
  Check RGB OUT connector, cable and connector X1.

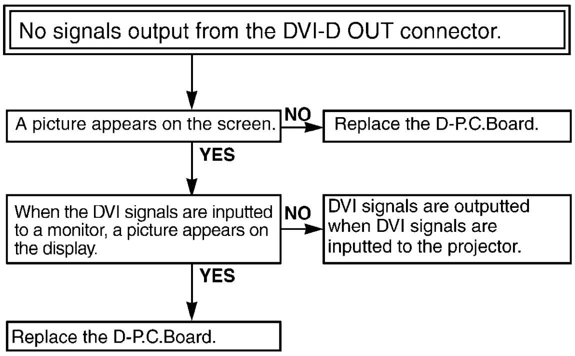
OK

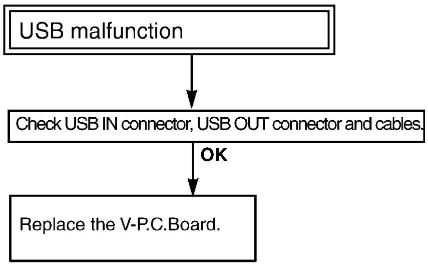
Replace the V-P.C.Board.

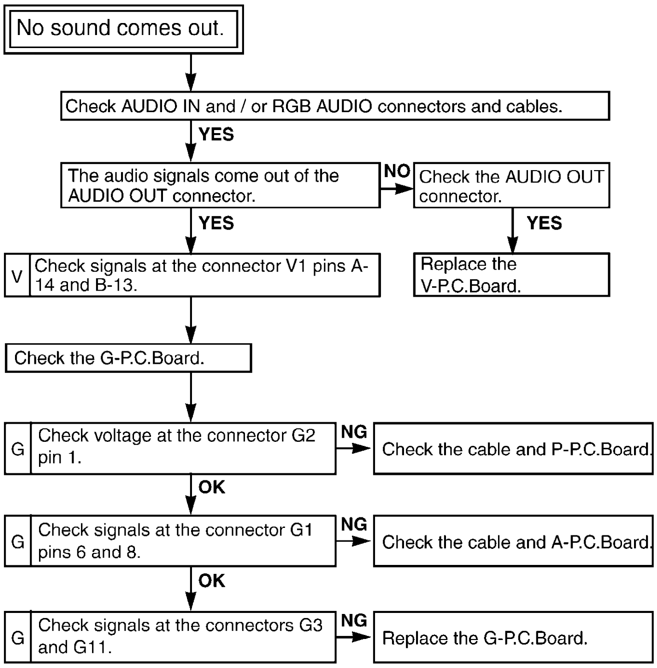
D-P.C.Board Check

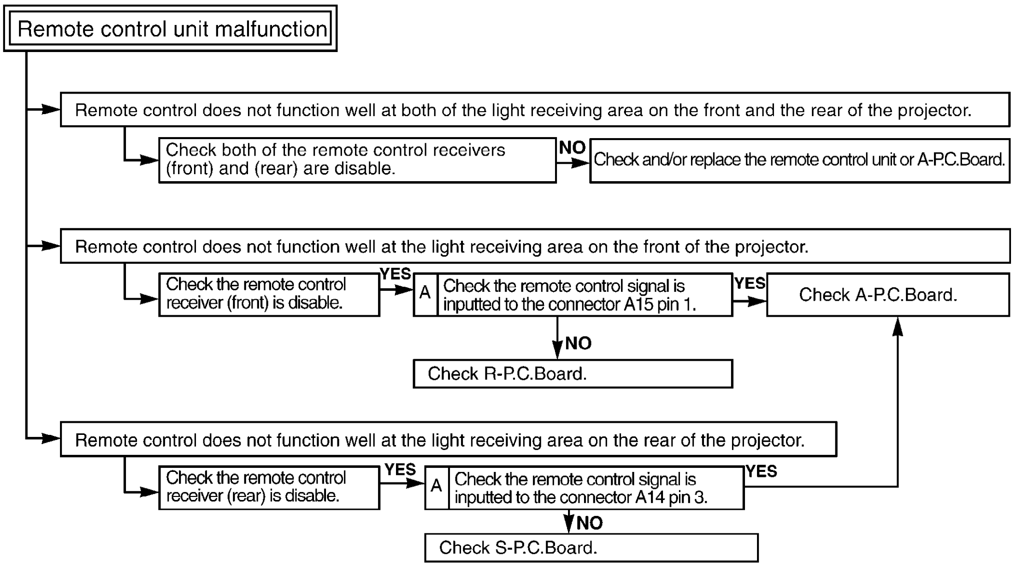
- Check voltage on the connector D1 pins A-46, A-48 and A-50.
- Check waveform on the connector D1 pins A-13, A-14, B-12 and B-13.

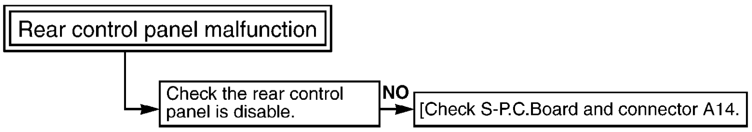

No signals output from the RGB OUT connector.
A picture appears on the screen.
Check and/or replace the X-P.C.Board.
NO
Go to "No picture appears".


No signals output from the DVI-D OUT connector.
A picture appears on the screen.
NO
Replace the D-P.C.Board.
YES
When the DVI signals are inputted to a monitor, a picture appears on the display.
NO
DVI signals are outputted when DVI signals are inputted to the projector.
YES
Replace the D-P.C.Board.


USB malfunction
Check USB IN connector, USB OUT connector and cables.
OK
Replace the V-P.C.Board.


No sound comes out.
Check AUDIO IN and / or RGB AUDIO connectors and cables.
YES
The audio signals come out of the AUDIO OUT connector.
NO
Check the AUDIO OUT connector.
YES
YES
V
Check signals at the connector V1 pins A-14 and B-13.
Replace the V-P.C.Board.
Check the G-P.C.Board.
G
Check voltage at the connector G2 pin 1.
NG
Check the cable and P-P.C.Board.
OK
G
Check signals at the connector G1 pins 6 and 8.
NG
Check the cable and A-P.C.Board.
OK
G
Check signals at the connectors G3 and G11.
NG
Replace the G-P.C.Board.


Remote control unit malfunction
Remote control does not function well at both of the light receiving area on the front and the rear of the projector.
Check both of the remote control receivers (front) and (rear) are disable.
NO
Check and/or replace the remote control unit or A-P.C.Board.
Remote control does not function well at the light receiving area on the front of the projector.
Check the remote control receiver (front) is disable.
YES
A
Check the remote control signal is inputted to the connector A15 pin 1.
YES
Check A-P.C.Board.
NO
Check R-P.C.Board.
Remote control does not function well at the light receiving area on the rear of the projector.
Check the remote control receiver (rear) is disable.
YES
A
Check the remote control signal is inputted to the connector A14 pin 3.
YES
NO
Check S-P.C.Board.


Rear control panel malfunction
Check the rear control panel is disable.
NO
[Check S-P.C.Board and connector A14.

11. Interconnection Block Diagram

11.1. Interconnection Block Diagram (1/3)

11.2. Interconnection Block Diagram (2/3)

11.3. Interconnection Block Diagram (3/3)

12. Block Diagram

12.1. Power Supply

12.2. Signal Processing (1/3)

12.3. Signal Processing (2/3)

12.4. Signal Processing (3/3)

13. Schematic Diagram

Schematic Diagram for PT-L6500U / L6600U / L6500UL / L6600UL

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS.
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Schematic Diagram for Models PT-L6500E / L6600E / L6500EL / L6600EL

Important Safety Notice

Components identified by the international ⚠ have special characteristics important for safety.When replacing any of these components, use only the manufacturer's specified ones.

Notes:

1. **Resistor**
   All the resistors are carbon 1/4W resistors, unless marked as follows:The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).
   - ○ : Nonflammable
   - △ : Solid
   - ◪ : Wire Wound
   - ☒ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse
2. **Capacitor**
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ☒ : Polypropylene
   - +⊣⊢− : Electrolytic
   - NP ⊣⊢ : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. **Coil**
   The unit of inductance is a μH, unless otherwise noted.
4. **Test Point**
   - ● : Test Point
5. **Voltage Measurement**
   The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.
6. **Color code for the links between diagrams and circuit boards**

From/To		To/From	Color code
Block diagram	↔	Schematic diagram	Magenta
Schematic diagram	↔	Schematic diagram	Green
Schematic diagram	↔	Circuit boards	Yellow
Schematic diagram	↔	Waveforms	Cyan (Light blue)

7. **HOT and COLD indications**
   The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:
8. **This schematic diagram is the latest at the time of printing and the subject to change without notice.**

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow.Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

13.1. A-P.C.Board (PT-L6500 SERIES) (1/4)

13.2. A-P.C.Board (PT-L6500 SERIES) (2/4)

13.3. A-P.C.Board (PT-L6500 SERIES) (3/4)

13.4. A-P.C.Board (PT-L6500 SERIES) (4/4)

13.5. A-P.C.Board (PT-L6600 SERIES) (1/8)

13.6. A-P.C.Board (PT-L6600 SERIES) (2/8)

13.7. A-P.C.Board (PT-L6600 SERIES) (3/8)

13.8. A-P.C.Board (PT-L6600 SERIES) (4/8)

13.9. A-P.C.Board (PT-L6600 SERIES) (5/8)

13.10. A-P.C.Board (PT-L6600 SERIES) (6/8)

13.11. A-P.C.Board (PT-L6600 SERIES) (7/8)

13.12. A-P.C.Board (PT-L6600 SERIES) (8/8)

13.13. P-P.C.Board K-P.C.Board

13.14. Z-P.C.Board

13.15. V-P.C.Board(1/3)

13.16. V-P.C.Board(2/3)

13.17. V-P.C.Board(3/3)

13.18. X-P.C.Board(1/2)

13.19. X-P.C.Board(2/2)

13.20. D-P.C.Board

13.21. G-P.C.Board

13.22. R-P.C.Board S-P.C.Board B-P.C.Board

13.23. J-P.C.Board

14. Circuit Boards

14.1. A-P.C.Board (PT-L6500 SERIES) (Foil Side)

14.2. A-P.C.Board (PT-L6500 SERIES) (Component Side)

14.3. A-P.C.Board (PT-L6600 SERIES) (Foil Side)

14.4. A-P.C.Board (PT-L6600 SERIES) (Component Side)

14.5. P-P.C.Board Z-P.C.Board

14.6. V-P.C.Board R-P.C.Board

14.7. X-P.C.Board S-P.C.Board

14.8. D-P.C.Board G-P.C.Board

14.9. B-P.C.Board

15. Terminal guide of ICs and transistors

16. Exploded Views

17. Replacement Parts List

Important Safety Notice

Components identified by the International symbol ⚠ have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : ± 1 %
F : Fuse	G : ± 2 %
M : Metal Oxide	J : ± 5 %
Metal Film	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : ±0.25 pF
E : Electrolytic	D : ±0.5 pF
P : Polyester	F : ± 1 pF
PP : Polypropylene	J : ± 5 %
S : Polystyrol	K : ±10 %
T : Tantalum	L : ±15 %
	M : ±20 %
	P : +100 %, -0 %
	Z : +80 %, -20 %

Note: For G ＊＊ of Ref. No., not indicate illustration of it part on "Exploded Views".
Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

17.1. PT-L6500, PT-L6600 SERIES

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
G1	D4CDH5030001	THERMISTER	
K1	K1EA03NA0001	REMOTE CONTROLL CABLE	
K2	K1HB04FD0001	USB CABLE	
K3	K1HB15FA0001	VGA CABLE	
K4-1	K2CA3FZ00001	POWER CORD	⚠PT-L6500U,L6500UL,L6600U,L6600UL
K4-2	TXFSX02VTHZ	POWER CORD (U.K)	⚠PT-L6500E,L6500EL,L6600E,L6600EL
K4-3	TXFSX02VTFZ	POWER CORD (Continental)	⚠PT-L6500E,L6500EL,L6600E,L6600EL
K5	K2RB031D0001	ADAPTER PLUG	
G2	K5D123AQ0001	FUSE 125V,12A	⚠PT-L6500U,L6500UL,L6600U,L6600UL
G3	K5Y632B00001	FUSE 250V,6.3A	⚠PT-L6500E,L6500EL,L6600E,L6600EL
K6	L0AA07B00004	SPEAKER	
K7	L5BDAXQ00011	LIQUID CRYSTAL DISPLAY(R)	PT-L6500U,L6500UL,L6500E,L6500EL
	L5BDAXR00003	LIQUID CRYSTAL DISPLAY(R)	PT-L6600U,L6600UL,L6600E,L6600EL
K8	L5BDAXQ00012	LIQUID CRYSTAL DISPLAY(G)	PT-L6500U,L6500UL,L6500E,L6500EL
	L5BDAXR00004	LIQUID CRYSTAL DISPLAY(G)	PT-L6600U,L6600UL,L6600E,L6600EL
K9	L5BDAXQ00013	LIQUID CRYSTAL DISPLAY(B)	PT-L6500U,L6500UL,L6500E,L6500EL
	L5BDAXR00005	LIQUID CRYSTAL DISPLAY(B)	PT-L6600U,L6600UL,L6600E,L6600EL
K10	L6FAHABH0002	BALLAST FAN	⚠
K11	L6FAKEEH0007	POWER FAN	⚠
K12	L6FALEFH0012	VENTILATION FAN	⚠
K13	L6FCLFCH0002	PBS FAN	⚠
K14	L6FCNGFH0001	FAN	⚠
G4	L6FAHCCH0001	FAN	⚠
K15	N2QAEA000003	REMOTE CONTROLLER	⚠
K16	TBLB0038	ADJUST FOOT ASSY	
K17	TBLG3038	RUBBER FOOT (REAR)	
G5	TBLG3040	SIDE FOOT	
G6	TBME197	MODEL NAME PLATE	PT-L6500U
	TBME203	MODEL NAME PLATE	PT-L6500UL
	TBME198	MODEL NAME PLATE	PT-L6500E
	TBME204	MODEL NAME PLATE	PT-L6500EL
	TBME200	MODEL NAME PLATE	PT-L6600U
	TBME206	MODEL NAME PLATE	PT-L6600UL
	TBME201	MODEL NAME PLATE	PT-L6600E
	TBME207	MODEL NAME PLATE	PT-L6600EL
K18	TBXA31701	CONTROL BUTTON	PT-L6500U,L6500E,L6600U,L6600E
	TBXA31702	CONTROL BUTTON	PT-L6500UL,L6500EL,L6600UL,L6600EL
K19	TEDC5056-2	LENS MOUNT	PT-L6500U,L6500E,L6600U,L6600E
	TEDC0009	LENS MOUNT	PT-L6500UL,L6500EL,L6600UL,L6600EL
K20	TEEC5046	DUCT	
K21	TEEC5047	PANEL DUCT	
K22	TEEC5048	LAMP DUCT	

Ref. No.	Part No.	Part Name & Description	Remarks
K23	TEEC5049	VENTILATION DUCT 1	
K24	TEEC5050	VENTILATION DUCT 2	
G7	TEEC5051	BALLAST DUCT	
G8	TEEC5053	DUCT COVER	
K25	TEK6940	DOOR SWITCH	
K26	TENC5133	LCD INSTALL METAL	
G9	TENC5158	METAL	
G10	TES4539	SPRING	
K27	TESA134	LCD INSTALL METAL SPRING	
K28	TGAX015	SHIFT ELECTRIC UNIT	⚠
G11	THEC052N	D-SUB SCREW	
G12	THEC053U	SCREW	
G13	THEC055N	SCREW	
G14	THNG003X	NUT	
K29	TKFE05501	HANDLE COVER	
K30	TKGF0049-1	LENS	⚠PT-L6500U,L6500E,L6600U,L6600E
K31	TKKH5078	DOOR STOPPER	
	TKKH5085	VENTILATION GUIDE (R)	
	TKKH5086	VENTILATION GUIDE (L)	
	TKKH5083	VENTILATION OUT (R)	
	TKKH5084	VENTILATION OUT (L)	
G15	TXZKK01VJE4	LENS CAP	PT-L6500U,L6500E,L6600U,L6600E
	TKKL5077	LENS CAP	PT-L6500UL,L6500EL,L6600UL,L6600EL
G16	TKNE039-1	FILTER	
K32	TKPA50301	RECEIVER COVER (REAR)	
K33	TKPA51101	OPERATION DOOR	
K34	TKRA23701	HANDLE	
K35	TKRA24001	SCREW COVER (RF)	
K36	TKRA24101	SCREW COVER (LF)	
K37	TKRA24201	SCREW COVER (RR)	
K38	TKRA24301	SCREW COVER (LR)	
K39	TKRA24701	HANDLE SEAT	
K40	TKZG0012	DUSTPROOF COVER	
G19	TMKX012	LAMP COVER WASHER	
G20	TMM16473-1	CLAMPER	
G21	TMM6463-1	CLAMPER	
G22	TMME181	FUSE COVER	
G23	TMWJ014	LED HOLDER	
K41	TMZK5007	SPEAKER BRACKET	
K42	TMZX5016	FILTER COVER	
	TPAMM33	RIVET ASSY	
G24	TPCB06902	CARTON	PT-L6500U
	TXFPC99PKEZ	CARTON	PT-L6500UL
	TPCB06903	CARTON	PT-L6500E
	TXFPC99PKJZ	CARTON	PT-L6500EL
	TPCB06905	CARTON	PT-L6600U
	TXFPC99PKGZ	CARTON	PT-L6600UL
	TPCB06906	CARTON	PT-L6600E
	TXFPC99PKLZ	CARTON	PT-L6600EL
G25	TPDA0533	CUSHION 1	
G26	TPDA0534	CUSHION 2	
G27	TPDF0411	CUSHION	
G28	TPEH151	SET PROTECT BAG	

Ref. No.	Part No.	Part Name & Description	Remarks
G29	TQD1712010	LABEL	
G30	TQF86202	LABEL	
G31	TQZC082-1	FAN BAG	PT-L6500U,L6600U
	TQZC085-1	FAN BAG	PT-L6500UL,L6600UL
	TQBJ0078	INSTRUCTION BOOK	PT-L6500E,L6600E,
	TQZC086-1	FAN BAG	PT-L6500EL,L6600EL
K43	TSEX0004	BIMETAL	⚠
K44	TSEX8005	SWITCH	⚠
K45	TUWC032-1	AC INLET METAL	
K46	TUWC033	BIMETAL METAL	
K47	TUWF084	TERMINAL METAL	
G32	TUWF085	BNC METAL (SMALL)	
G33	TUWF086	BNC METAL (BIG)	
G34	TUXX184	SHIFT METAL	
K48	TXFKP02VJE4	TERMINAL COVER ASSY	
	TXJ/A24VJE4A	SENSOR SWITCH	
K49	TXZEC01VJE4	ANALYSIS BLOCK	⚠
K50	TXZED01VJE4	OPTICAL BLOCK	PT-L6500U,L6500E
	TXZED01VJG2	OPTICAL BLOCK	PT-L6500UL,L6500EL
	TXZED01VJC3	OPTICAL BLOCK	PT-L6600U,L6600E
	TXZED01VJG4	OPTICAL BLOCK	PT-L6600UL,L6600EL
K51	TXZKG02VJE4	POLARIZING PLATE/OUT (R)	
K52	TXZKG03VJE4	POLARIZING PLATE/OUT (G)	
K53	TXZKG04VJE4	POLARIZING PLATE/OUT (B)	
K54	TXFTT99PKDZ	UPPER COVER	PT-L6500U
	TXFTT99PKEZ	UPPER COVER	PT-L6500UL
	TXFTT99PKHZ	UPPER COVER	PT-L6500E
	TXFTT99PKJZ	UPPER COVER	PT-L6500EL
	TXFTT99PKFZ	UPPER COVER	PT-L6600U
	TXFTT99PKGZ	UPPER COVER	PT-L6600UL
	TXFTT99PKKZ	UPPER COVER	PT-L6600E
	TXFTT99PKLZ	UPPER COVER	PT-L6600EL
K55	TXFTF99PKDZ	BOTTOM COVER	
K56	TXFKP99PKDZ	LAMP COVER	
K57	TXFNR99VJE4	POLARIZING PLATE/IN R	
K58	TXFNG99VJE4	POLARIZING PLATE/IN G	
K59	TXFNB99VJE4	POLARIZING PLATE/IN B	
G35	XSN4+15	SCREW	
G36	XYN4+J50	SCREW	
G37	XSS2+6	SCREW	
G38	XSS2+6FZ	SCREW	
G39	XTBT969Z	SCREW	
G40	XTV3+16B	SCREW	
G41	XTV3+8A	SCREW	
G42	XTW3+8P	TAPPING SCREW	
G43	XYC2+JG6	SCREW	
G44	XYN2+F6	SCREW	
G45	XYN3+F14	SCREW	
G46	XYN3+F20	SCREW	
G47	XYN3+F6	SCREW	
G48	XYN3+F8	SCREW	
G49	XYN3+J10	SCREW	
G50	XYN3+J12	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
G51	**XYN3+J5**	**SCREW**	
G52	**XYN3+J8**	**SCREW**	
G53	**XYN4+C6**	**SCREW**	
G54	**XYN4+E8**	**SCREW**	
G55	**XYN4+F30**	**SCREW**	
G56	**XYN4+F32**	**SCREW**	
G57	**XYN4+F35**	**SCREW**	
G58	**XYN4+J10**	**SCREW**	
G59	**XYN4+J14**	**SCREW**	
G60	**XYN4+J30**	**SCREW**	
G61	**XYN6+F10**	**SCREW**	
G62	**TKZG0014**	**DUSTPROOF COVER (UPPER)**	**PT-L6500UL,L6500EL,L6600UL,L6600EL**
G63	**TKZG0015**	**DUSTPROOF COVER (BOTTOM)**	**PT-L6500UL,L6500EL,L6600UL,L6600EL**
G64	**XQN2+C3FZ**	**SCREW**	**PT-L6500UL,L6500EL,L6600UL,L6600EL**
		[INTEGRATED CIRCUIT]	
IC1001	**PLPT16374A**	**I.C**	
IC1002	**PLPT16374A**	**I.C**	
IC1003	**PLPT16374A**	**I.C**	
IC1004	**PLPT16374A**	**I.C**	
IC1005	**JLC1562BF**	**I.C**	
IC1006	**TVRJ428**	**I.C**	
IC1007	**MN8271AT**	**I.C**	
IC1008	**C3HBMJ000004**	**I.C**	
IC1009	**PQ05SZ51**	**I.C**	
IC1011	**JLC1562BF**	**I.C**	
IC1013	**LB1831M**	**I.C**	
IC1014	**PLPT16244CA**	**I.C**	
IC1018	**C1AB00001089**	**I.C**	
IC1019	**C3ABMG000080**	**I.C**	
IC1020	**C3ABMG000080**	**I.C**	
IC1021	**C3ABMG000080**	**I.C**	
IC1022	**C0ZBZ0000534**	**I.C**	
IC1023	**C9ZB00000326**	**I.C**	
IC1024	**C0CBAAC00040**	**I.C**	
IC1025	**C2BBCB000012**	**I.C**	
IC1026	**C1ZBZ0001774**	**I.C**	
IC1028	**TC7W04FU**	**I.C**	
IC1029	**C0JBAZ001467**	**I.C**	
IC1030	**M51957BFP**	**I.C**	
IC1031	**24LC65TI/SM**	**I.C**	
IC1032	**TVRJ498**	**I.C**	
IC1034	**TC7W04FU**	**I.C**	
IC1035	**TVRJ497-1**	**I.C**	
IC1036	**C1AB00001398**	**I.C**	
IC1037	**PQ05SZ51**	**I.C**	
IC1038	**M62399FP**	**I.C**	
IC1039	**AN78L12M**	**I.C**	
IC1040	**TVSA0320**	**I.C**	
IC1041	**C0JBAZ001467**	**I.C**	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1043	**MN1382R**	**I.C**	
IC1044	**C1AB00001273**	**I.C**	
IC1045	**C1AB00001273**	**I.C**	
IC1046	**C1AB00001273**	**I.C**	
IC1047	**C1AB00001273**	**I.C**	
IC1048	**C1AB00001273**	**I.C**	
IC1049	**C1AB00001273**	**I.C**	
IC1050	**C1AB00001267**	**I.C**	
IC1051	**C1AB00001267**	**I.C**	
IC1052	**C1AB00001267**	**I.C**	
IC1053	**LB1930M-TLM**	**I.C**	
IC1054	**PQ09SZ1T**	**I.C**	
IC3001	**MB87L1067**	**I.C**	
IC3002	**TVSA0500**	**I.C**	
IC3004	**C1AB00001226**	**I.C**	
IC3005	**MC14052BF**	**I.C**	
IC3006	**M5222FP**	**I.C**	
IC3007	**BA15218F**	**I.C**	
IC3008	**C1AB00001226**	**I.C**	
IC3009	**PQ3DZ13U**	**I.C**	
IC3010	**PQ1R33**	**I.C**	
IC3011	**AN78L09M**	**I.C**	
IC3012	**C0JBAZ001467**	**I.C**	
IC3013	**C1AB00001163**	**I.C**	
IC3015	**TVRJ528**	**I.C**	
IC3016	**UPD4721GS**	**I.C**	
IC3017	**SN74HC14NS**	**I.C**	
IC3018	**MM1065ZMR**	**I.C**	
IC3019	**C2BBFD000291**	**I.C**	
IC3020	**SAI01-V1**	**I.C**	
IC4001	**24LC21T-I/SN**	**I.C**	
IC4002	**AD8055ART**	**I.C**	
IC4003	**AD8055ART**	**I.C**	
IC4004	**AD8055ART**	**I.C**	
IC4007	**M52755FP**	**I.C**	
IC4008	**PQ05SZ11**	**I.C**	
IC4009	**C0CBCBE00001**	**I.C**	
IC4010	**TC7SH08F**	**I.C**	
IC4011	**MC14053BF**	**I.C**	
IC4012	**C0FBAD000027**	**I.C**	
IC4013	**C0JBAZ000855**	**I.C**	
IC4014	**M52036SP**	**I.C**	
IC4016	**PQ05SZ51**	**I.C**	
IC4018	**L4931CDT120**	**I.C**	
IC4020	**TC7SH08F**	**I.C**	
IC4021	**TC7SH08F**	**I.C**	
IC5001	**24LC21T-I/SN**	**I.C**	
IC5002	**C0JBAZ000855**	**I.C**	
IC5003	**JLC1562BF**	**I.C**	
IC5004	**C0CBCBE00001**	**I.C**	
IC5005	**C0CBCBE00001**	**I.C**	
IC5006	**C0CBCBE00001**	**I.C**	
IC5007	**C0CBCBE00001**	**I.C**	
IC5008	**PQ05SZ11**	**I.C**	

Ref. No.	Part No.	Part Name & Description	Remarks
IC5009	**SIL150ACT100**	**I.C**	
IC5010	**SIL151ACT100**	**I.C**	
IC7501	**AN7147N**	**I.C**	
IC7502	**M62393FP**	**I.C**	
IC7503	**AN78L05M**	**I.C**	
IC7504	**SI-3050CA**	**I.C**	
IC7505	**C0DBEZE00002**	**I.C**	
IC7506	**C0DBEZE00002**	**I.C**	
IC7507	**C0DBEZE00002**	**I.C**	
IC7508	**C0DBEZE00002**	**I.C**	
IC9201	**MC33262D**	**I.C**	
IC9202	**AN78L15M**	**I.C**	
IC9501	**STRF6676LF52**	**I.C**	
IC9502	**SE012N**	**I.C**	
IC9503	**SI8050JLF118**	**I.C**	
IC9504	**C0DAZKG00011**	**I.C**	
IC9505	**C0DBAZH00007**	**I.C**	
IC9506	**C0DBEZC00010**	**I.C**	
IC9507	**C0DBAZH00006**	**I.C**	
		[TRANSISTORS]	
Q1001	**2SD601AR**	**TRANSISTOR**	
Q1003	**2SD601AR**	**TRANSISTOR**	
Q1004	**2SD601AR**	**TRANSISTOR**	
Q1005	**2SD601AR**	**TRANSISTOR**	
Q1006	**2SD601AR**	**TRANSISTOR**	
Q1007	**2SD601AR**	**TRANSISTOR**	
Q1009	**2SD601AR**	**TRANSISTOR**	
Q1010	**2SD601AR**	**TRANSISTOR**	
Q1011	**2SB709A**	**TRANSISTOR**	
Q1012	**2SB709A**	**TRANSISTOR**	
Q1013	**2SB709A**	**TRANSISTOR**	
Q1014	**2SB709A**	**TRANSISTOR**	
Q1015	**2SB709A**	**TRANSISTOR**	
Q1016	**2SB709A**	**TRANSISTOR**	
Q1017	**2SD601AR**	**TRANSISTOR**	
Q1018	**2SD601AR**	**TRANSISTOR**	
Q1019	**2SD601AR**	**TRANSISTOR**	
Q1020	**2SD601AR**	**TRANSISTOR**	
Q1021	**2SD601AR**	**TRANSISTOR**	
Q1022	**2SD601AR**	**TRANSISTOR**	
Q1023	**2SD601AR**	**TRANSISTOR**	
Q1024	**2SB709A**	**TRANSISTOR**	
Q1025	**2SD601AR**	**TRANSISTOR**	
Q1026	**2SB709A**	**TRANSISTOR**	
Q1027	**2SD601AR**	**TRANSISTOR**	
Q1028	**2SB709A**	**TRANSISTOR**	
Q1029	**2SD601AR**	**TRANSISTOR**	
Q1030	**2SB709A**	**TRANSISTOR**	
Q1031	**2SD601AR**	**TRANSISTOR**	
Q1032	**2SB709A**	**TRANSISTOR**	
Q1033	**2SD601AR**	**TRANSISTOR**	
Q1034	**2SB709A**	**TRANSISTOR**	

Ref. No.	Part No.	Part Name & Description	Remarks
Q2501	2SD601AR	TRANSISTOR	
Q2502	2SD601AR	TRANSISTOR	
Q2503	2SD601AR	TRANSISTOR	
Q2504	2SB709A	TRANSISTOR	
Q2505	2SB709A	TRANSISTOR	
Q2506	2SD601AR	TRANSISTOR	
Q2601	2SD601AR	TRANSISTOR	
Q3001	2SD601AR	TRANSISTOR	
Q3002	2SD601AR	TRANSISTOR	
Q3003	2SD601AR	TRANSISTOR	
Q3004	2SD601AR	TRANSISTOR	
Q3006	2SD601AR	TRANSISTOR	
Q3007	2SK198R	TRANSISTOR	
Q3008	2SD601A-R	TRANSISTOR	
Q3009	2SD601A-R	TRANSISTOR	
Q3010	2SB709R	TRANSISTOR	
Q3011	2SD601AR	TRANSISTOR	
Q3013	2SD601AR	TRANSISTOR	
Q3014	2SD601AR	TRANSISTOR	
Q3018	2SB709A	TRANSISTOR	
Q3019	2SD601AR	TRANSISTOR	
Q4005	2SD601AR	TRANSISTOR	
Q4012	2SD601AR	TRANSISTOR	
Q4013	2SB709A	TRANSISTOR	
Q4014	2SD601AR	TRANSISTOR	
Q4015	2SB709A	TRANSISTOR	
Q4016	2SD601AR	TRANSISTOR	
Q4017	2SB709A	TRANSISTOR	
Q4018	2SD601AR	TRANSISTOR	
Q4019	2SB709A	TRANSISTOR	
Q4020	2SD601AR	TRANSISTOR	
Q4021	2SD601AR	TRANSISTOR	
Q4022	2SD601AR	TRANSISTOR	
Q4025	2SD601AR	TRANSISTOR	
Q4026	2SB709A	TRANSISTOR	
Q4027	2SD601AR	TRANSISTOR	
Q4028	2SB709A	TRANSISTOR	
Q4029	2SD601AR	TRANSISTOR	
Q4030	2SD601AR	TRANSISTOR	
Q4031	2SD601AR	TRANSISTOR	
Q4032	2SD601AR	TRANSISTOR	
Q4033	2SD601AR	TRANSISTOR	
Q4036	2SD601AR	TRANSISTOR	
Q4037	2SB709A	TRANSISTOR	
Q4038	2SA1462	TRANSISTOR	
Q4039	2SA1462	TRANSISTOR	
Q4040	2SA1462	TRANSISTOR	
Q7505	2SD601AR	TRANSISTOR	
Q7506	2SD601AR	TRANSISTOR	
Q7507	2SD601AR	TRANSISTOR	
Q7508	2SD601AR	TRANSISTOR	
Q7509	2SD601AR	TRANSISTOR	
Q7510	2SB709A	TRANSISTOR	
Q7511	2SB709A	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q7512	2SB709A	TRANSISTOR	
Q7513	2SB709A	TRANSISTOR	
Q7514	2SD601AR	TRANSISTOR	
Q7515	2SD601AR	TRANSISTOR	
Q7516	2SD601AR	TRANSISTOR	
Q7517	2SD601AR	TRANSISTOR	
Q7518	2SD601AR	TRANSISTOR	
Q7519	2SD601AR	TRANSISTOR	
Q7520	2SD601AR	TRANSISTOR	
Q7521	2SD601AR	TRANSISTOR	
Q7522	2SD601AR	TRANSISTOR	
Q7523	2SD601AR	TRANSISTOR	
Q7525	2SD601AR	TRANSISTOR	
Q7526	2SD601AR	TRANSISTOR	
Q7527	2SD601AR	TRANSISTOR	
Q7528	2SD601AR	TRANSISTOR	
Q7529	2SD601AR	TRANSISTOR	
Q7530	2SD601AR	TRANSISTOR	
Q7531	2SD601AR	TRANSISTOR	
Q7533	2SD601AR	TRANSISTOR	
Q7534	2SB709A	TRANSISTOR	
Q9201	2SD601AR	TRANSISTOR	
Q9202	2SK2917	FET	
Q9203	2SK2917	FET	
Q9204	2SB710A	TRANSISTOR	
Q9205	2SD601AR	TRANSISTOR	
Q9501	2SD601AR	TRANSISTOR	
Q9502	2SD601AR	TRANSISTOR	
Q9503	2SD601AR	TRANSISTOR	
Q9504	2SD601AR	TRANSISTOR	
Q9606	B1JABQ000001	TRANSISTOR	
Q9607	B1JABQ000001	TRANSISTOR	
Q9610	B1JABQ000001	TRANSISTOR	
Q9611	B1JABQ000001	TRANSISTOR	
[DIODES]			
D1002	B3ABB0000089	LED	
D1003	MA3056M	ZENER DIODE	
D1004	MA3056M	ZENER DIODE	
D1006	MA3056M	ZENER DIODE	
D1007	MA3056M	ZENER DIODE	
D1008	B3ABB0000089	LED	
D1009	B3ABB0000088	LED	
D1010	D4B503390001	THERMISTOR	⚠
D2501	SEL1110R	LED (RED)	
D2502	SEL1110R	LED (RED)	
D2503	SEL1110R	LED (RED)	
D2504	LN11WP38	LED	
D2505	MA152K	DIODE	
D2506	MA152K	DIODE	
D2601	MA152K	DIODE	
D2602	MA152K	DIODE	
D3001	MA3110M	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D3002	MA3110M	DIODE	
D3003	MA3110M	DIODE	
D3004	MA3100H	ZENER DIODE	
D3005	MA3100H	ZENER DIODE	
D3006	MA3100H	ZENER DIODE	
D3007	MA3100H	ZENER DIODE	
D3010	MA3110M	DIODE	
D3011	MA3150M	DIODE	
D3012	MA3150M	DIODE	
D3013	MA3150M	DIODE	
D3014	MA3150M	DIODE	
D3015	MA3150M	DIODE	
D3016	MA3150M	DIODE	
D3017	MA3150M	DIODE	
D3018	MA3150M	DIODE	
D3019	MA3150M	DIODE	
D3020	MA3150M	DIODE	
D3021	MA3150M	DIODE	
D3022	MA3150M	DIODE	
D3023	MA3150M	DIODE	
D3024	MA3150M	DIODE	
D3025	MA3150M	DIODE	
D3026	MA3150M	DIODE	
D3029	MA152WK	DIODE	
D3030	MA152WK	DIODE	
D3032	MA3062M	ZENER DIODE	
D3033	MA3062M	ZENER DIODE	
D3034	MA721	DIODE	
D4001	MA3056M	ZENER DIODE	
D4002	MA3056M	ZENER DIODE	
D4003	MA3056M	ZENER DIODE	
D4004	MA152K	DIODE	
D4005	MA152K	DIODE	
D4006	MA152K	DIODE	
D4007	MA152K	DIODE	
D4008	MA152K	DIODE	
D4009	MA152K	DIODE	
D4010	MA3150M	DIODE	
D4011	MA3150M	DIODE	
D4012	MA3150M	DIODE	
D4013	MA3150M	DIODE	
D4016	MA3150M	DIODE	
D4017	MA3150M	DIODE	
D4018	MA3150M	DIODE	
D4019	MA3150M	DIODE	
D4020	MA152K	DIODE	
D4021	MA152K	DIODE	
D4022	MA152K	DIODE	
D4023	MA152K	DIODE	
D4024	MA152K	DIODE	
D4025	MA152K	DIODE	
D4026	MA153A	DIODE	
D4027	MA153A	DIODE	
D4028	MA153A	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D4029	MA153A	DIODE	
D4030	MA152K	DIODE	
D4031	MA152K	DIODE	
D4032	MA152K	DIODE	
D4033	MA152K	DIODE	
D4034	MA153A	DIODE	
D4035	MA153A	DIODE	
D4036	MA153A	DIODE	
D4037	MA153A	DIODE	
D4040	MA153A	DIODE	
D4041	MA153A	DIODE	
D4042	MA153A	DIODE	
D4043	MA3062M	ZENER DIODE	
D4044	MA152WK	DIODE	
D4045	MA152WK	DIODE	
D4046	MA153A	DIODE	
D4047	MA153A	DIODE	
D4048	MA153A	DIODE	
D4049	MA3056M	ZENER DIODE	
D4050	MA3056M	ZENER DIODE	
D5007	MA3056M	ZENER DIODE	
D5008	MA3056M	ZENER DIODE	
D5009	MA3056M	ZENER DIODE	
D9101	ERZV14D471	VARISTOR	⚠
D9201	MA152K	DIODE	
D9202	B3PAA0000149	PHOTO COUPLER	⚠
D9203	ERZV14D471	VARISTOR	⚠
D9204	B0FBBR000011	DIODE	
D9205	M1FL20UF4063	DIODE	
D9206	MA720	DIODE	
D9207	MA720	DIODE	
D9208	M1FL20UF4063	DIODE	
D9209	MA720	DIODE	
D9210	MA152K	DIODE	
D9211	MA5056	ZENER DIODE	
D9212	SF8L60F13	DIODE	
D9213	D1FL40F4063	DIODE	
D9501	M1FL20UF4063	DIODE	
D9502	MA1Z068	DIODE	
D9503	M1FL20UF4063	DIODE	
D9504	M1FL20UF4063	DIODE	
D9505	MA723	DIODE	
D9506	M1FL20UF4063	DIODE	
D9507	EP01CV1	DIODE	
D9508	M1FL20UF4063	DIODE	
D9509	B3PAA0000162	PHOTO COUPLER	⚠
D9510	MA153A	DIODE	
D9511	S3L20U	DIODE	
D9512	S3L20U	DIODE	
D9513	B0HESM000001	DIODE	
D9514	B0HESM000001	DIODE	
D9515	B0JCPD000010	DIODE	
D9516	MA1Z240	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D9517	B0JCPD000010	DIODE	
D9518	M1FL20UF4063	DIODE	
D9519	MA1Z180	DIODE	
D9520	MA5062	DIODE	
D9521	MA5062	DIODE	
D9522	B0JCPD000010	DIODE	
D9523	MA1Z130	DIODE	
D9524	M1FL20UF4063	DIODE	
D9525	MA5062	DIODE	
D9526	MA152K	DIODE	
[COILS]			
L1001	TLTAZ100K	PEAKING COIL	
L1002	TLTAZ100K	PEAKING COIL	
L1003	TLTAZ100K	PEAKING COIL	
L1004	ELJFA6R8JB	CHIP COIL	
L1005	ELJFA470JB	COIL	
L1006	ELJFA6R8JB	CHIP COIL	
L1007	ELJFA6R8JB	CHIP COIL	
L1008	ELJFA6R8JB	CHIP COIL	
L1009	ELJFA6R8JB	CHIP COIL	
L1010	ELJFA6R8JB	CHIP COIL	
L1011	ELJFA6R8JB	CHIP COIL	
L1012	ELJFA6R8JB	CHIP COIL	
L1013	ELJFA6R8JB	CHIP COIL	
L1014	ELJFA6R8JB	CHIP COIL	
L1015	ELJFA6R8JB	CHIP COIL	
L1016	ELJFA6R8JB	CHIP COIL	
L1017	ELJFA6R8JB	CHIP COIL	
L1018	ELJFA6R8JB	CHIP COIL	
L1019	ELJFA6R8JB	CHIP COIL	
L1020	ELJFA6R8JB	CHIP COIL	
L1021	ELJFA6R8JB	CHIP COIL	
L1022	ELJFA6R8JB	CHIP COIL	
L1023	ELJFA6R8JB	CHIP COIL	
L1024	ELJFA6R8JB	CHIP COIL	
L1025	ELJFA6R8JB	CHIP COIL	
L1026	ELJFA6R8JB	CHIP COIL	
L1027	TLTAZ100K	PEAKING COIL	
L1028	TLTAZ100K	PEAKING COIL	
L1029	TLTAZ100K	PEAKING COIL	
L3001	TSKA108	CHOKE COIL	
L3002	TSKA108	CHOKE COIL	
L3003	TSKA108	CHOKE COIL	
L3005	TSKA108	CHOKE COIL	
L3006	ELJFA6R8JB	CHIP COIL	
L3007	ELJFA6R8JB	CHIP COIL	
L3008	ELJFA6R8JB	CHIP COIL	
L3009	ELJFA6R8JB	CHIP COIL	
L3010	ELJFA470JB	COIL	
L3011	ELJFA6R8JB	CHIP COIL	
L3012	J0JDC0000035	COIL	
L3013	TSKA108	CHOKE COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L3014	ELJFA470JB	COIL	
L3015	ELJFA470JB	COIL	
L3016	TSKA108	CHOKE COIL	
L3017	TSKA108	CHOKE COIL	
L3018	TSKA108	CHOKE COIL	
L3019	J0JDC0000035	COIL	
L3020	G0A681DA0001	CHOKE COIL	
L4053	ELJFA6R8JB	CHIP COIL	
L5001	EXCCET103U	EMI FILTER	
L5002	TLTAZ100K	PEAKING COIL	
L5007	TLTAZ100K	PEAKING COIL	
L5011	EXCCET103U	EMI FILTER	
L5012	EXCCET103U	EMI FILTER	
L5013	EXCCET103U	EMI FILTER	
L7501	EXCELDR35C	CORE	
L9101	G0BYYYM00001	CHOKE COIL	⚠
L9201	G0BYYYL00003	CHOKE COIL	⚠
L9202	EXCELDR35C	CORE	
L9203	EXCELDR35C	CORE	
L9501	EXCELSA24	CORE	
L9502	EXCELDR35C	CORE	
L9503	EXCELDR35C	CORE	
L9504	G0A101GA0017	CHOKE COIL	
L9505	EXCELDR35C	CORE	
L9506	G1C100M00023	COIL	
L9507	EXCELDR35C	CORE	
L9508	EXCELDR35C	CORE	
L9509	ERDS2TC0	C 0 OHM, 1/4W	
L9510	G1C100M00023	COIL	
L9511	ERDS2TC0	C 0 OHM, 1/4W	
LC1001	EXCCET103U	EMI FILTER	
LC1002	EXCCET103U	EMI FILTER	
LC1003	EXCCET103U	EMI FILTER	
LC1004	EXCCET103U	EMI FILTER	
LC1005	EXCCET103U	EMI FILTER	
LC1006	EXCCET103U	EMI FILTER	
LC1007	EXCCET103U	EMI FILTER	
LC1008	EXCCET103U	EMI FILTER	
LC1010	EXCCET103U	EMI FILTER	
LC1012	EXCCET103U	EMI FILTER	
LC1013	EXCCET103U	EMI FILTER	
LC1014	EXCCET103U	EMI FILTER	
LC1015	EXCCET103U	EMI FILTER	
LC1016	EXCCET103U	EMI FILTER	
LC1017	EXCCET103U	EMI FILTER	
LC1018	EXCCET103U	EMI FILTER	
LC1022	EXCCET103U	EMI FILTER	
LC1023	EXCCET103U	EMI FILTER	
LC1024	EXCCET103U	EMI FILTER	
LC1025	EXCCET103U	EMI FILTER	
LC1026	EXCCET103U	EMI FILTER	
LC3001	ELKE101FA	EMI FILTER	
LC3002	ELKE101FA	EMI FILTER	
LC3003	ELKE101FA	EMI FILTER	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
LC3004	ELKE471FA	EMI FILTER	
LC3005	ELKE471FA	EMI FILTER	
LC3006	ELKE471FA	EMI FILTER	
LC3007	ELKE471FA	EMI FILTER	
LC3010	ELKE471FA	EMI FILTER	
LC3011	ELKE471FA	EMI FILTER	
LC3012	ELKE471FA	EMI FILTER	
LC3013	ELKE471FA	EMI FILTER	
LC3014	EXCCET103U	EMI FILTER	
LC3015	EXCCET103U	EMI FILTER	
LC3016	ELKE101FA	EMI FILTER	
LC3017	EXCCET103U	EMI FILTER	
LC3019	ELKE101FA	EMI FILTER	
LC3020	ELKE101FA	EMI FILTER	
LC3021	ELKE101FA	EMI FILTER	
LC3022	ELKE101FA	EMI FILTER	
LC3027	ELKE470FA	NOISE FILTER	
LC3028	EXCCET103U	EMI FILTER	
LC4008	EXCCET103U	EMI FILTER	
LC4009	EXCCET103U	EMI FILTER	
LC4010	ELKE470FA	NOISE FILTER	
LC4011	ELKE103FA	EMI FILTER	
LC4012	ELKE103FA	EMI FILTER	
LC4013	ELKE103FA	EMI FILTER	
LC4014	ELKE103FA	EMI FILTER	
LC4021	ELKE103FA	EMI FILTER	
LC4022	EXCCET103U	EMI FILTER	
LC4023	EXCCET103U	EMI FILTER	
LC4024	EXCCET103U	EMI FILTER	
LC4025	EXCCET103U	EMI FILTER	
LC4026	EXCCET103U	EMI FILTER	
[TRANSFORMERS]			
T9201	G0ZZ00001980	TRANS	⚠
T9501	G4D3A0000029	SWITCHING TRANS	⚠
[RESISTORS]			
R1001	EXB38V220J	RESISTOR ARRAY	
R1002	EXB38V220J	RESISTOR ARRAY	
R1003	EXB38V220J	RESISTOR ARRAY	
R1004	EXB38V220J	RESISTOR ARRAY	
R1005	EXB38V220J	RESISTOR ARRAY	
R1006	EXB38V220J	RESISTOR ARRAY	
R1007	EXB38V220J	RESISTOR ARRAY	
R1008	EXB38V220J	RESISTOR ARRAY	
R1009	EXB38V220J	RESISTOR ARRAY	
R1010	EXB38V220J	RESISTOR ARRAY	
R1011	EXB38V220J	RESISTOR ARRAY	
R1012	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1013	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1014	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1015	ERJ3GEYJ220	M 22 OHM,J,1/16W	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
R1016	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1017	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1018	EXB38V220J	RESISTOR ARRAY	
R1019	EXB38V220J	RESISTOR ARRAY	
R1020	EXB38V220J	RESISTOR ARRAY	
R1021	EXB38V220J	RESISTOR ARRAY	
R1022	EXB38V220J	RESISTOR ARRAY	
R1023	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1024	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1025	EXB38VR000	RESISTOR ARRAY	
R1026	EXB38VR000	RESISTOR ARRAY	
R1027	EXB38VR000	RESISTOR ARRAY	
R1028	EXB38VR000	RESISTOR ARRAY	
R1029	EXB38VR000	RESISTOR ARRAY	
R1030	EXB38VR000	RESISTOR ARRAY	
R1031	EXB38VR000	RESISTOR ARRAY	
R1032	EXB38VR000	RESISTOR ARRAY	
R1033	EXB38VR000	RESISTOR ARRAY	
R1034	EXB38VR000	RESISTOR ARRAY	
R1035	EXB38VR000	RESISTOR ARRAY	
R1036	EXB38VR000	RESISTOR ARRAY	
R1037	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1038	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1039	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1040	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1041	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1042	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1043	EXB38V220J	RESISTOR ARRAY	
R1044	EXB38V220J	RESISTOR ARRAY	
R1045	EXB38V220J	RESISTOR ARRAY	
R1046	EXB38V220J	RESISTOR ARRAY	
R1047	EXB38V220J	RESISTOR ARRAY	
R1048	EXB38V220J	RESISTOR ARRAY	
R1049	EXB38V220J	RESISTOR ARRAY	
R1050	EXB38V220J	RESISTOR ARRAY	
R1051	EXB38V220J	RESISTOR ARRAY	
R1052	EXB38V220J	RESISTOR ARRAY	
R1053	EXB38V220J	RESISTOR ARRAY	
R1054	EXB38V220J	RESISTOR ARRAY	
R1055	EXB38V220J	RESISTOR ARRAY	
R1056	EXB38V220J	RESISTOR ARRAY	
R1057	EXB38V220J	RESISTOR ARRAY	
R1058	EXB38V220J	RESISTOR ARRAY	
R1059	EXB38V220J	RESISTOR ARRAY	
R1060	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1061	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1062	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1063	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1064	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1065	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1066	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1067	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1068	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1069	ERJ3GEYJ560	M 56 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1070	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1072	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1073	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1074	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1075	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1076	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1077	EXB38V220J	RESISTOR ARRAY	
R1078	EXB38V220J	RESISTOR ARRAY	
R1079	EXB38V220J	RESISTOR ARRAY	
R1080	EXB38V220J	RESISTOR ARRAY	
R1081	EXB38V220J	RESISTOR ARRAY	
R1082	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1083	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1084	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1085	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1086	EXB38V220J	RESISTOR ARRAY	
R1087	EXB38V220J	RESISTOR ARRAY	
R1088	EXB38V220J	RESISTOR ARRAY	
R1089	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1090	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1093	EXB38V220J	RESISTOR ARRAY	
R1094	EXB38V472J	RESISTOR ARRAY	
R1095	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1096	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1100	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1103	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1104	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1112	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1113	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1114	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1115	EXB38V472J	RESISTOR ARRAY	
R1121	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1122	EXB38V101J	RESISTOR ARRAY	
R1125	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1151	EXB38V220J	RESISTOR ARRAY	
R1152	EXB38V220J	RESISTOR ARRAY	
R1153	EXB38V220J	RESISTOR ARRAY	
R1154	EXB38V220J	RESISTOR ARRAY	
R1155	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1156	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1157	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1159	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1160	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1161	EXB38V220J	RESISTOR ARRAY	
R1163	EXB38V220J	RESISTOR ARRAY	
R1164	EXB38V220J	RESISTOR ARRAY	
R1165	EXB38V220J	RESISTOR ARRAY	
R1166	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1167	EXB38V220J	RESISTOR ARRAY	
R1168	EXB38V220J	RESISTOR ARRAY	
R1169	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1170	EXB38V101J	RESISTOR ARRAY	
R1171	EXB38V220J	RESISTOR ARRAY	
R1172	EXB38V101J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1173	EXB38V220J	RESISTOR ARRAY	
R1174	EXB38V101J	RESISTOR ARRAY	
R1175	EXB38V220J	RESISTOR ARRAY	
R1176	EXB38V101J	RESISTOR ARRAY	
R1177	EXB38V220J	RESISTOR ARRAY	
R1178	EXB38V101J	RESISTOR ARRAY	
R1179	EXB38V220J	RESISTOR ARRAY	
R1180	EXB38V101J	RESISTOR ARRAY	
R1181	EXB38V220J	RESISTOR ARRAY	
R1182	EXB38V101J	RESISTOR ARRAY	
R1183	EXB38V101J	RESISTOR ARRAY	
R1184	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1185	EXB38V103J	RESISTOR ARRAY	
R1186	EXB38V220J	RESISTOR ARRAY	
R1187	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1188	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1189	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1190	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1191	EXB38V220J	RESISTOR ARRAY	
R1192	EXB38V220J	RESISTOR ARRAY	
R1193	EXB38V220J	RESISTOR ARRAY	
R1194	EXB38V220J	RESISTOR ARRAY	
R1195	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1196	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1197	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1198	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1199	EXB38V220J	RESISTOR ARRAY	
R1200	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1201	EXB38V220J	RESISTOR ARRAY	
R1202	EXB38V220J	RESISTOR ARRAY	
R1203	EXB38V220J	RESISTOR ARRAY	
R1204	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1205	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1206	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1207	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1208	EXB38V220J	RESISTOR ARRAY	
R1209	EXB38V220J	RESISTOR ARRAY	
R1210	EXB38V220J	RESISTOR ARRAY	
R1211	EXB38V220J	RESISTOR ARRAY	
R1212	EXB38V220J	RESISTOR ARRAY	
R1213	EXB38V220J	RESISTOR ARRAY	
R1214	EXB38V220J	RESISTOR ARRAY	
R1215	EXB38V220J	RESISTOR ARRAY	
R1216	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1217	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1218	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1219	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1220	EXB38V220J	RESISTOR ARRAY	
R1221	EXB38V220J	RESISTOR ARRAY	
R1222	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1223	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1224	EXB38V220J	RESISTOR ARRAY	
R1225	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1227	EXB38V220J	RESISTOR ARRAY	
R1228	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1229	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1230	EXB38V220J	RESISTOR ARRAY	
R1233	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1234	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1235	EXB38V220J	RESISTOR ARRAY	
R1236	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1238	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1239	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1240	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1241	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1242	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1243	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1244	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1245	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1246	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1247	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1248	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1249	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1250	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1251	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1252	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1253	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1254	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1257	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1258	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1259	EXB38V220J	RESISTOR ARRAY	
R1261	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1262	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1263	EXB38V220J	RESISTOR ARRAY	
R1264	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1265	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1266	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1267	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1268	EXB38V220J	RESISTOR ARRAY	
R1269	EXB38V220J	RESISTOR ARRAY	
R1270	EXB38V102J	RESISTOR ARRAY	
R1271	EXB38V101J	RESISTOR ARRAY	
R1272	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1273	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1274	EXB38V220J	RESISTOR ARRAY	
R1275	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1276	EXB38V101J	RESISTOR ARRAY	
R1277	EXB38V220J	RESISTOR ARRAY	
R1278	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1279	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1280	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1282	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1283	EXB38V101J	RESISTOR ARRAY	
R1284	EXB38V101J	RESISTOR ARRAY	
R1285	EXB38V101J	RESISTOR ARRAY	
R1286	EXB38V101J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1287	EXB38V220J	RESISTOR ARRAY	
R1288	EXB38V220J	RESISTOR ARRAY	
R1289	EXB38V220J	RESISTOR ARRAY	
R1290	EXB38V220J	RESISTOR ARRAY	
R1291	EXB38V220J	RESISTOR ARRAY	
R1292	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1293	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1294	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1295	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1296	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1297	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1298	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1299	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1300	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1301	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1302	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1303	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1304	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1305	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1306	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1307	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1308	EXB38V103J	RESISTOR ARRAY	
R1309	EXB38V103J	RESISTOR ARRAY	
R1310	EXB38V101J	RESISTOR ARRAY	
R1311	EXB38V102J	RESISTOR ARRAY	
R1312	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1314	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1315	EXB38V220J	RESISTOR ARRAY	
R1316	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1318	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1319	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1321	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R1322	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1323	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1325	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1326	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1327	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1329	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1330	EXB38V101J	RESISTOR ARRAY	
R1331	EXB38V220J	RESISTOR ARRAY	
R1333	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1334	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1335	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1336	EXB38V103J	RESISTOR ARRAY	
R1337	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1338	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1339	EXB38V103J	RESISTOR ARRAY	
R1340	EXB38V103J	RESISTOR ARRAY	
R1341	EXB38V220J	RESISTOR ARRAY	
R1342	EXB38V103J	RESISTOR ARRAY	
R1343	EXB38V103J	RESISTOR ARRAY	
R1344	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1345	EXB38V220J	RESISTOR ARRAY	
R1346	EXB38V103J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1347	EXB38V103J	RESISTOR ARRAY	
R1348	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1349	EXB38V103J	RESISTOR ARRAY	
R1350	EXB38V103J	RESISTOR ARRAY	
R1351	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1352	EXB38V101J	RESISTOR ARRAY	
R1353	EXB38V103J	RESISTOR ARRAY	
R1354	EXB38V220J	RESISTOR ARRAY	
R1355	EXB38V220J	RESISTOR ARRAY	
R1356	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1358	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1359	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1360	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1361	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1363	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1364	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1365	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1366	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1367	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1368	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1369	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1370	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1372	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1373	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1374	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1375	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1376	EXB38V101J	RESISTOR ARRAY	
R1377	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1378	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1379	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1380	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1381	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1383	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1385	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1387	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1388	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1390	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1404	EXB38V220J	RESISTOR ARRAY	
R1405	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1406	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1407	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1408	EXB38V220J	RESISTOR ARRAY	
R1409	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1411	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1413	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1415	EXB38V220J	RESISTOR ARRAY	
R1416	EXB38V220J	RESISTOR ARRAY	
R1417	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1418	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1419	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1420	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1421	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1422	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1423	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1424	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1425	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1426	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1427	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1428	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1429	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1430	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1431	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1432	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1433	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1434	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1435	EXB38V220J	RESISTOR ARRAY	
R1436	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1437	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1438	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1439	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1440	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1441	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1442	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1443	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1444	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1445	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1446	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1447	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1448	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1449	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1450	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1451	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1452	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1453	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1455	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1457	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1459	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1460	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1461	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1462	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1463	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1464	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1465	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1466	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1467	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1468	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1469	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1470	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1471	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1472	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1473	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1474	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1475	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1476	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1477	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1478	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1479	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1480	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1481	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1482	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1483	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1484	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1485	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1486	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1487	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1488	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1489	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1490	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1491	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1492	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1493	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1494	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1495	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1496	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1497	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1498	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1499	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1500	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1501	ERJ6GEYJ3R3	M 3.3 OHM,J,1/10W	
R1502	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1503	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1504	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1505	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1506	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1507	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1508	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1509	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1510	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1511	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1512	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1513	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1514	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1515	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1516	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1517	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1518	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1519	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1520	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1521	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1522	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1523	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1524	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1525	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1526	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1527	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1528	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1529	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1530	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1531	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1532	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1533	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1535	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1536	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1537	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1538	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1540	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1541	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1542	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1543	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1544	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1545	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1546	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1566	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1567	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1568	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1569	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1570	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1571	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1573	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1574	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1576	EXB38V220J	RESISTOR ARRAY	
R1577	EXB38V472J	RESISTOR ARRAY	
R1578	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1579	EXB38V472J	RESISTOR ARRAY	
R1580	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1581	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1582	EXB38V101J	RESISTOR ARRAY	
R1583	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1584	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1585	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1586	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1587	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1588	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1589	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1590	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2501	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2502	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R2503	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R2504	EXB38V102J	RESISTOR ARRAY	
R2505	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R2506	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R2507	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R2508	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R2509	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2510	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2601	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2602	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2603	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2604	ERJ6ENF2201	M 2.2KOHM, 1/10W	
R2605	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R2606	ERJ6ENF3302	M 33KOHM, 1/10W	
R2607	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R2608	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2609	ERJ6ENF1501	M 1.5KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R2610	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2611	ERJ6ENF2201	M 2.2KOHM, 1/10W	
R2612	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R2613	ERJ6ENF3302	M 33KOHM, 1/10W	
R2614	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2615	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2616	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2617	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2618	ERJ6ENF2201	M 2.2KOHM, 1/10W	
R2619	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R2620	ERJ6ENF3302	M 33KOHM, 1/10W	
R2621	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2622	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R2623	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R2624	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3001	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3002	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R3003	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3004	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3005	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R3006	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R3007	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R3008	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R3009	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R3010	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R3011	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R3012	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R3019	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3020	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3021	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3022	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3023	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3024	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3025	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3026	ERJ3GEYJ274	M 270KOHM,J,1/16W	
R3027	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R3028	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3031	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3032	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3033	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3034	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3035	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R3036	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R3037	ERJ3GEYJ393	M 39K OHM,J,1/16W	
R3038	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R3039	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3040	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3041	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R3042	ERJ3GEYJ393	M 39K OHM,J,1/16W	
R3043	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3044	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R3045	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R3046	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3047	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3048	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3049	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R3050	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R3051	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R3052	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3054	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3056	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R3057	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R3058	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3059	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3060	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3062	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R3064	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R3065	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R3066	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R3068	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R3069	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3070	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	
R3071	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R3072	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R3073	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R3074	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3075	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3076	ERJ6ENF47R0	M 47 OHM, 1/10W	
R3077	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3078	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3079	ERJ6ENF47R0	M 47 OHM, 1/10W	
R3080	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3081	EXB38V330J	RESISTOR ARRAY	
R3082	ERJ6ENF1500	M 150 OHM, 1/10W	
R3083	ERJ6ENF47R0	M 47 OHM, 1/10W	
R3084	EXB38V330J	RESISTOR ARRAY	
R3085	EXB38V330J	RESISTOR ARRAY	
R3086	EXB38V330J	RESISTOR ARRAY	
R3087	EXB38V330J	RESISTOR ARRAY	
R3088	EXB38V330J	RESISTOR ARRAY	
R3089	EXB38V330J	RESISTOR ARRAY	
R3090	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R3091	EXB38V330J	RESISTOR ARRAY	
R3092	EXB38V330J	RESISTOR ARRAY	
R3093	EXB38V330J	RESISTOR ARRAY	
R3094	EXB38V330J	RESISTOR ARRAY	
R3095	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3096	EXB38V330J	RESISTOR ARRAY	
R3097	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3098	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3099	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3100	ERJ3GEYJ391	M 390 OHM,J,1/16W	
R3102	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3103	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R3104	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3105	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3106	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3107	ERJ3GEYJ223	M 22K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3108	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3109	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3110	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3111	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3112	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3113	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R3114	ERJ3GEYJ391	M 390 OHM,J,1/16W	
R3115	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R3116	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R3117	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R3118	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3119	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3120	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R3121	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3122	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R3123	ERJ3GEYJ823	M 82KOHM,J,1/16W	
R3124	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3125	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3126	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3127	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3128	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R3129	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3130	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R3131	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3132	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3133	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3135	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3136	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3137	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3138	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R3139	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R3142	ERJ3GEYJ274	M 270KOHM,J,1/16W	
R3143	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R3145	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R3146	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R3147	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3148	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3149	ERJ3GEY0R00	M 0 OHM, 1/16W	
R3150	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3151	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3152	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3153	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3154	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3155	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3156	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3157	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R3158	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R3159	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R3160	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R3161	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R3162	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R3163	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R3164	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R3165	ERJ6GEYJ101	M 100 OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3166	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3167	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3168	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3169	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3170	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3171	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3172	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3173	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	
R3174	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R3175	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3176	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3177	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3178	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3179	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R3180	**ERJ3GEYJ103**	**M 10K OHM,J,1/16W**	
R3181	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R3182	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	
R3183	**ERJ3GEYJ332**	**M 3.3KOHM,J,1/16W**	
R3184	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R3185	**ERJ3GEYJ472**	**M 4.7KOHM,J,1/16W**	
R3186	**ERJ3GEYJ223**	**M 22K OHM,J,1/16W**	
R3189	**ERJ3GEYJ223**	**M 22K OHM,J,1/16W**	
R3192	**ERJ3GEYJ103**	**M 10K OHM,J,1/16W**	
R3193	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R3196	**ERJ3GEYJ223**	**M 22K OHM,J,1/16W**	
R3197	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R3198	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R3200	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3201	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3202	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R3204	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3205	**ERJ6GEYJ220**	**M 22 OHM,J,1/10W**	
R3206	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	
R3207	**ERJ6GEYJ562**	**M 5.6KOHM,J,1/10W**	
R3208	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	
R3209	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R3210	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R3211	**ERJ6GEYJ152**	**M 1.5KOHM,J,1/10W**	
R3212	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	
R3213	**ERJ6GEYJ105**	**M 1MOHM,J,1/10W**	
R3214	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	
R3215	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R3216	**ERJ6GEYJ153**	**M 15KOHM,J,1/10W**	
R3217	**ERJ6GEYJ153**	**M 15KOHM,J,1/10W**	
R3218	**ERJ6GEYJ153**	**M 15KOHM,J,1/10W**	
R3219	**ERJ6GEYJ153**	**M 15KOHM,J,1/10W**	
R3222	**ERJ6GEYJ152**	**M 1.5KOHM,J,1/10W**	
R3223	**ERJ3GEYJ221**	**M 220 OHM,J,1/16W**	
R3224	**ERJ3GEYJ221**	**M 220 OHM,J,1/16W**	
R4001	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R4002	**ERJ3GEYJ101**	**M 100 OHM,J,1/16W**	
R4003	**ERJ3GEYJ103**	**M 10K OHM,J,1/16W**	
R4004	**ERJ3GEYJ103**	**M 10K OHM,J,1/16W**	
R4005	**ERJ3GEYJ103**	**M 10K OHM,J,1/16W**	

Ref. No.	Part No.	Part Name & Description	Remarks
R4006	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4007	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4008	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4009	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R4010	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R4011	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4012	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4013	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4014	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4015	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R4016	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R4017	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R4018	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R4021	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R4022	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4023	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4024	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4025	ERJ6ENF75R0	M 75 OHM, 1/10W	
R4026	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R4027	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R4028	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R4031	ERJ6ENF4020	M 402 OHM, 1/10W	
R4032	ERJ6ENF4020	M 402 OHM, 1/10W	
R4033	ERJ6ENF4020	M 402 OHM, 1/10W	
R4036	ERJ6ENF4020	M 402 OHM, 1/10W	
R4037	ERJ6ENF4020	M 402 OHM, 1/10W	
R4038	ERJ6ENF4020	M 402 OHM, 1/10W	
R4041	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R4042	ERJ3GEYJ273	M 27KOHM,J,1/16W	
R4043	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R4044	ERJ3GEYJ273	M 27KOHM,J,1/16W	
R4045	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R4046	ERJ3GEYJ273	M 27KOHM,J,1/16W	
R4057	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R4058	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R4059	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R4063	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R4064	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4065	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4083	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4084	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4085	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4086	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4087	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4088	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4089	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4090	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4091	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R4092	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R4093	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4094	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4095	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4097	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4098	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R4099	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4100	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4101	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4102	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4103	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4104	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4105	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R4106	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R4107	ERJ6ENF3001	M 3KOHM, 1/10W	
R4109	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4110	ERJ6ENF3001	M 3KOHM, 1/10W	
R4111	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4112	ERJ6GEYJ821	M 820 OHM,J,1/10W	
R4113	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4114	ERJ6GEYJ821	M 820 OHM,J,1/10W	
R4115	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R4116	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4117	ERJ6GEYJ821	M 820 OHM,J,1/10W	
R4118	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4126	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4127	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4129	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4132	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R4133	ERJ3GEYJ391	M 390 OHM,J,1/16W	
R4134	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4135	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4136	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R4138	EXB38V220J	RESISTOR ARRAY	
R4140	EXB38V220J	RESISTOR ARRAY	
R4141	EXB38V220J	RESISTOR ARRAY	
R4142	ERJ3GEY0R00	M 0 OHM, 1/16W	
R4143	EXB38V220J	RESISTOR ARRAY	
R4144	EXB38V220J	RESISTOR ARRAY	
R4145	EXB38V220J	RESISTOR ARRAY	
R4146	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R4147	EXB38V220J	RESISTOR ARRAY	
R4148	EXB38V220J	RESISTOR ARRAY	
R4149	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R4150	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4151	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R4152	EXB38V220J	RESISTOR ARRAY	
R4153	EXB38V220J	RESISTOR ARRAY	
R4154	EXB38V220J	RESISTOR ARRAY	
R4155	EXB38V220J	RESISTOR ARRAY	
R4156	EXB38V220J	RESISTOR ARRAY	
R4157	EXB38V220J	RESISTOR ARRAY	
R4158	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4159	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R4162	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R4163	ERJ6ENF2702	M 27KOHM, 1/10W	
R4164	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R4169	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R4170	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R4178	ERJ3GEYJ101	M 100 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R4179	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4180	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4181	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4182	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4183	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4184	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R4185	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4186	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4187	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4188	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	
R4189	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4190	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R4191	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4192	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4193	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4194	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4195	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4196	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4197	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4198	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4203	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4204	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4205	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4206	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4207	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4208	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4209	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R4212	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4213	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4214	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4215	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4218	EXB38V220J	RESISTOR ARRAY	
R4219	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4220	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4221	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4222	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R4224	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R4226	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R4228	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4229	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4230	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4236	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4238	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R4240	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4241	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4242	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R4243	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R5001	EXB38VR000	RESISTOR ARRAY	
R5002	EXB38VR000	RESISTOR ARRAY	
R5003	EXB38V473J	RESISTOR ARRAY	
R5004	EXB38V473J	RESISTOR ARRAY	
R5007	EXB38VR000	RESISTOR ARRAY	
R5008	EXB38VR000	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R5009	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R5010	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R5012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R5015	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5016	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5017	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5018	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5019	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R5020	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R5021	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R5022	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5023	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5024	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5025	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5026	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5027	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R5028	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R5030	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5031	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5034	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5035	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5036	EXB38V330J	RESISTOR ARRAY	
R5037	EXB38V330J	RESISTOR ARRAY	
R5040	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R5041	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R5042	ERJ3GEYJ511	M 510 OHM,J,1/16W	
R5045	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5046	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5047	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5048	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5049	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5050	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5051	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5052	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5053	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5054	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R5056	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R5063	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R5064	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5065	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5066	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5067	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5068	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5069	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5070	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5071	EXB38V330J	RESISTOR ARRAY	
R5072	EXB38V472J	RESISTOR ARRAY	
R5073	EXB38V472J	RESISTOR ARRAY	
R5074	EXB38V330J	RESISTOR ARRAY	
R5075	EXB38VR000	RESISTOR ARRAY	
R5076	EXB38VR000	RESISTOR ARRAY	
R5077	EXB38VR000	RESISTOR ARRAY	
R5078	EXB38VR000	RESISTOR ARRAY	
R5079	EXB38VR000	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R5080	EXB38VR000	RESISTOR ARRAY	
R5081	EXB38VR000	RESISTOR ARRAY	
R5082	EXB38VR000	RESISTOR ARRAY	
R5083	EXB38VR000	RESISTOR ARRAY	
R5084	EXB38VR000	RESISTOR ARRAY	
R5085	EXB38V220J	RESISTOR ARRAY	
R5086	EXB38V220J	RESISTOR ARRAY	
R5087	EXB38VR000	RESISTOR ARRAY	
R5088	EXB38VR000	RESISTOR ARRAY	
R5089	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R5090	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5091	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5092	ERJ3GEY0R00	M 0 OHM, 1/16W	
R5093	ERJ3GEY0R00	M 0 OHM, 1/16W	
R7511	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7514	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R7515	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R7516	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7517	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R7518	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R7519	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7520	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R7521	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R7524	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7527	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R7528	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R7529	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7530	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7531	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7532	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7533	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7534	ERQ2CJP1R2S	F 1.2 OHM, J, 2W	
R7536	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7537	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7538	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7539	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7540	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7541	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7542	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7543	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7544	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7545	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7546	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7547	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7548	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7549	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7550	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7551	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7552	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7553	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7554	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7555	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7556	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7557	ERJ6GEYJ103	M 10KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R7558	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7559	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7560	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7561	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7562	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7563	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7564	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7565	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7566	ERJ6ENF1001	M 1KOHM, 1/10W	
R7567	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7568	ERJ6ENF1001	M 1KOHM, 1/10W	
R7569	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7570	ERJ6ENF1001	M 1KOHM, 1/10W	
R7571	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7572	ERJ6ENF1001	M 1KOHM, 1/10W	
R7573	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7574	ERJ6ENF1001	M 1KOHM, 1/10W	
R7575	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7577	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7579	ERJ6ENF2001	M 2KOHM, 1/10W	
R7580	ERJ6ENF2001	M 2KOHM, 1/10W	
R7581	ERJ6ENF2001	M 2KOHM, 1/10W	
R7582	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R7583	ERJ6ENF2001	M 2KOHM, 1/10W	
R7585	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R7586	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R7587	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R7588	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R7589	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7592	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7593	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7594	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7595	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7596	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7597	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7598	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7599	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7600	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7601	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7602	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7603	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7604	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7605	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7606	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7607	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7608	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7609	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7610	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7611	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7612	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7613	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7615	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7616	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R7617	ERJ6GEYJ103	M 10KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R7618	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7619	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R7620	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R7621	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R7622	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R7623	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R7624	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R7625	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7626	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7627	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7628	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R7629	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7630	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R7631	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R9101	ERC12GK184	S 180KOHM, K,1/2W	⚠PT-L6500U,L6500UL,L6600U,L6600UL
R9101	ERC1GK184	S 180KOHM, K, 1W	⚠PT-L6500E,L6500EL,L6600E,L6600EL
R9201	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R9203	ERU5TEK5R1	F 5.1 OHM, 5W	⚠
R9204	ERJ6ENF8203	M 820KOHM, 1/10W	
R9205	ERJ6ENF8203	M 820KOHM, 1/10W	
R9206	ERJ6ENF1502	M 15KOHM, 1/10W	
R9209	ERJ6GEYJ105	M 1MOHM,J,1/10W	
R9210	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R9211	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R9212	ERJ6GEYJ391	M 390 OHM,J,1/10W	
R9214	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R9216	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R9217	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R9218	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R9219	ERJ6GEYJ225	M 2.2MOHM,J,1/10W	
R9220	ERJ6ENF5601	M 5.6KOHM, 1/10W	PT-L6500U,L6500UL,L6600U,L6600UL
R9220	ERJ6ENF5101	M 5.1KOHM, J,1/10W	PT-L6500E,L6500EL,L6600E,L6600EL
R9221	ERJ6ENF5601	M 5.6KOHM, 1/10W	PT-L6500U,L6500UL,L6600U,L6600UL
R9221	ERJ6ENF5101	M 5.1KOHM, J,1/10W	PT-L6500E,L6500EL,L6600E,PT-L6600EL
R9222	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R9223	ERJ6ENF1503	M 150KOHM, 1/10W	
R9224	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R9226	ERJ12YJ103H	M 10KOHM, 1/2W	
R9227	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R9228	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R9229	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R9231	ERF10TLK47M	W 0.47OHM, 10W	
R9232	ERJ12YJ103H	M 10KOHM, 1/2W	
R9233	ERJ12YJ100H	M 10 OHM, 1/2W	
R9234	ERJ12YJ100H	M 10 OHM, 1/2W	
R9235	ERJ12YJ2R7H	M 2.7 OHM, 1/2W	
R9236	ERJ12YJ220H	M 22 OHM, 1/2W	
R9237	ERJ6ENF4703	M 470KOHM, 1/10W	
R9238	ERJ6ENF3303	M 330KOHM, 1/10W	
R9239	ERJ6ENF4703	M 470KOHM, 1/10W	
R9240	ERJ6ENF1203	M 120KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R9501	ERG5SJ823	M 82KOHM, 5W	
R9502	ERJ6GEYJ564	M 560KOHM,J,1/10W	
R9503	ERJ6GEYJ564	M 560KOHM,J,1/10W	
R9504	ERJ6GEYJ624	M 620KOHM, 1/10W	
R9505	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R9506	ERJ6GEYJ183	M 18KOHM,J,1/10W	
R9507	ERJ6GEYJ681	M 680 OHM,J,1/10W	
R9508	ERX2SJ3R3H	M 3.3 OHM, 2W	
R9509	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R9510	ERF5EKR22	W 0.22OHM, 5W	
R9511	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R9512	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R9513	ERG5SJ823	M 82KOHM, 5W	
R9514	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R9515	ERDS1FJ220	C 22 OHM, J,1/2W	
R9516	ERD75TAJ825	C 8.2MOHM, J,3/4W	⚠
R9517	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R9518	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R9519	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R9520	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R9521	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R9522	ERJ6ENF1000	M 100 OHM, 1/10W	
R9523	ERJ6ENF56R0	M 56 OHM, 1/10W	
R9524	ERJ6ENF1051	M1.05KOHM, 1/10W	
R9525	ERJ6ENF3741	M3.74KOHM, 1/10W	
R9526	ERJL1WKJ10C	RESISTOR	
R9527	ERJL1WKJ10C	RESISTOR	
R9528	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R9529	ERG2SJ104	M 100KOHM, 2W	
R9532	ERJ6ENF2001	M 2KOHM, 1/10W	
R9533	ERJ6ENF1502	M 15KOHM, 1/10W	
R9534	ERJ6GEYJ105	M 1MOHM,J,1/10W	
R9535	ERJ6ENF2201	M 2.2KOHM, 1/10W	
R9536	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R9537	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R9538	ERJ6ENF8663	M 866KOHM, 1/10W	
R9539	ERJ6ENF1003	M 100KOHM, 1/10W	
R9540	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R9541	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R9542	ERJL1WKJ10C	RESISTOR	
R9543	ERJL1WKJ50M	RESISTOR	
R9544	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R9547	ERJ6ENF1201	M 1.2KOHM, 1/10W	
R9548	ERJ6ENF1001	M 1KOHM, 1/10W	
R9549	ERJ6GEYJ105	M 1MOHM,J,1/10W	
R9550	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R9551	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R9552	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R9553	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R9554	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R9555	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R9556	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R9557	ERJ6GEYJ681	M 680 OHM,J,1/10W	
R9558	ERJ6ENF1002	M 10KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R9559	**ERJ6ENF2201**	**M 2.2KOHM, 1/10W**	
R9560	**ERJ6GEYJ330**	**M 33 OHM,J,1/10W**	
R9561	**ERJ6GEYJ330**	**M 33 OHM,J,1/10W**	
R9562	**ERJ6ENF1002**	**M 10KOHM, 1/10W**	
R9563	**ERJ6ENF1002**	**M 10KOHM, 1/10W**	
		[CAPACITORS]	
C1001	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1002	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1003	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1004	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1005	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1006	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1007	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1008	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1009	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1010	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1011	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1012	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1013	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1014	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1015	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1016	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1017	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1018	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1019	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1020	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1021	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1022	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1023	**ECJ1XC1H330J**	**C 33PF, J, 50V**	
C1024	**ECJ1XC1H330J**	**C 33PF, J, 50V**	
C1025	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1026	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1027	**ECJ2XB1C104K**	**C 0.1UF, K, 16V**	
C1028	**ECJ1XB1H222K**	**C 2200PF, K, 50V**	
C1029	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1030	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1031	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1032	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1033	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1034	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1035	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1036	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1037	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1038	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1039	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1040	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1041	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1042	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1043	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1044	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1045	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1046	**EEVHB0J470**	**E 47UF, 6.3V**	

Ref. No.	Part No.	Part Name & Description	Remarks
C1047	EEVHB0J470	E 47UF, 6.3V	
C1048	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1049	EEVHB0J220	E 22UF, 6.3V	
C1050	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1053	ECJ2XB1C104K	C 0.1UF, K, 16V	
C1054	ECJ1XB1H222K	C 2200PF, K, 50V	
C1055	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1056	EEVHB0J470	E 47UF, 6.3V	
C1057	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1058	EEVHB1E330	E 33UF, 25V	
C1059	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1061	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1063	EEVHB0J101P	E 100UF, 6.3V	
C1064	EEVHB0J101P	E 100UF, 6.3V	
C1066	ECJ1XC1H101J	C 100PF, J, 50V	
C1068	ECJ1XC1H101J	C 100PF, J, 50V	
C1075	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1078	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1084	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1085	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1088	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1089	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1106	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1107	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1108	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1109	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1112	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1113	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1114	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1116	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1118	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1119	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1120	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1121	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1122	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1123	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1124	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1125	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1126	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1127	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1128	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1129	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1130	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1131	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1132	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1133	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1134	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1135	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1136	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1137	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1138	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1139	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1140	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1141	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1142	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1143	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1144	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1145	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1146	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1147	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1148	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1149	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1150	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1152	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1153	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1155	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1156	EEVHB0J470	E 47UF, 6.3V	
C1157	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1158	EEVHB0J470	E 47UF, 6.3V	
C1159	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1160	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1161	EEVHB1A330	E 33UF, 10V	
C1162	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1163	EEVHB0J470	E 47UF, 6.3V	
C1164	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1165	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1166	EEVHB1E4R7	E 4.7UF, 25V	
C1167	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1168	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1169	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1170	EEVHB0J470	E 47UF, 6.3V	
C1171	EEVHB0J470	E 47UF, 6.3V	
C1172	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1173	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1174	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1175	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1176	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1177	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1178	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1179	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1180	EEVHB0J101P	E 100UF, 6.3V	
C1181	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1182	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1183	EEVHB0J101P	E 100UF, 6.3V	
C1184	ECJ1XC1H101J	C 100PF, J, 50V	
C1185	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1186	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1188	ECJ1XC1H101J	C 100PF, J, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1189	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1190	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1192	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1193	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1194	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1195	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1196	ECJ1XC1H150J	C 15PF, J, 50V	
C1197	ECJ1XC1H150J	C 15PF, J, 50V	
C1198	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1199	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1200	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1201	ECJ1XC1H101J	C 100PF, J, 50V	
C1202	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1203	ECJ1XC1H101J	C 100PF, J, 50V	
C1204	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1205	ECJ1XC1H101J	C 100PF, J, 50V	
C1206	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1207	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1208	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1209	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1210	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1211	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1212	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1213	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1214	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1215	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1216	ECJ1XB1C473K	C0.047UF, K, 16V	
C1217	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1218	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1219	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1220	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1221	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1222	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1223	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1224	EEVHB0J101P	E 100UF, 6.3V	
C1226	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1227	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1228	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1229	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1230	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1231	ECJ2XC1H471J	C 470PF, J, 50V	
C1232	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1233	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1234	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1235	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1236	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1237	ECJ1XC1H220J	C 22PF, J, 50V	
C1238	ECJ1XC1H220J	C 22PF, J, 50V	
C1239	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1240	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1241	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1242	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1243	EEVHB1A330	E 33UF, 10V	
C1244	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1245	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1246	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1247	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1248	EEVHB0J330	E 33UF, 6.3V	
C1249	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1250	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1251	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1252	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1253	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1255	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1257	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1258	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1260	EEVHB0J101P	E 100UF, 6.3V	
C1261	EEVHB1E4R7	E 4.7UF, 25V	
C1262	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1264	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1265	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1266	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1267	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1268	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1269	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1270	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1271	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1272	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1274	ECJ1XC1H101J	C 100PF, J, 50V	
C1275	EEVHB0J470	E 47UF, 6.3V	
C1276	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1277	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1278	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1279	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1280	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1281	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1282	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1283	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1284	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1285	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1286	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1287	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1288	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1289	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1290	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1291	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1292	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1293	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1294	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1295	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1296	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1297	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1298	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1299	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1300	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1301	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1302	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1303	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1304	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1305	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1306	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1307	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1308	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1309	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1310	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1311	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1312	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1313	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1314	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1315	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1316	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1317	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1318	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1319	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1320	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1321	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1322	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1323	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1324	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1325	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1326	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1327	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1328	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1329	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1330	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1331	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1332	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1333	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1334	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1335	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1336	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1337	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1338	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1339	EEVHB1E4R7	E 4.7UF, 25V	
C1340	EEVHB1E4R7	E 4.7UF, 25V	
C1341	EEVHB1E4R7	E 4.7UF, 25V	
C1342	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1343	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1344	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1345	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1346	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1347	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1348	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1349	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1350	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1351	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1352	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1353	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1354	EEVHB1E4R7	E 4.7UF, 25V	
C1355	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1356	EEVHB1E4R7	E 4.7UF, 25V	
C1357	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1358	EEVHB1E4R7	E 4.7UF, 25V	
C1359	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1360	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1361	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1362	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1363	EEVHB1E330	E 33UF, 25V	
C1364	EEVHB1E330	E 33UF, 25V	
C1365	EEVHB1E330	E 33UF, 25V	
C1366	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1367	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1368	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1369	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1370	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1371	EEVHB1C470P	E 47UF, 16V	
C1373	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1374	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2501	ECJ1XC1H101J	C 100PF, J, 50V	
C2502	ECJ1XC1H101J	C 100PF, J, 50V	
C2503	ECJ1XC1H101J	C 100PF, J, 50V	
C2504	ECJ1XC1H101J	C 100PF, J, 50V	
C2505	ECJ1XC1H101J	C 100PF, J, 50V	
C2506	ECJ1XC1H101J	C 100PF, J, 50V	
C2507	EEVHB0J470	E 47UF, 6.3V	
C2508	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2601	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2602	ECJ1XC1H101J	C 100PF, J, 50V	
C2603	EEVHB0J470	E 47UF, 6.3V	
C2604	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3001	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3002	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3003	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3004	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3007	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3008	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3010	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3011	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3012	ECJ2XC1H102J	C 1000PF, J, 50V	
C3013	EEVHP0J470	E 47UF, 6.3V	
C3014	EEVHP0J470	E 47UF, 6.3V	
C3015	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3016	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3017	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3018	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3020	ECJ2XB1H272K	C 2700PF, J, 50V	
C3021	EEVHB0J101P	E 100UF, 6.3V	
C3022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3023	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3024	ECJ2XB1H272K	C 2700PF, J, 50V	
C3025	ECJ2XF1C105Z	C 1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3026	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3027	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3028	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3029	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3030	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3031	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3032	ECJ2XB1H473K	C 0.047UF, K, 50V	
C3033	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3034	ECJ2XB1H473K	C 0.047UF, K, 50V	
C3035	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3036	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3039	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3040	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3041	EEVHB1A330	E 33UF, 10V	
C3042	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3043	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3044	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3045	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3046	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3047	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3048	EEVHB0J101P	E 100UF, 6.3V	
C3049	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3050	ECJ1XC1H470J	C 47PF, J, 50V	
C3051	ECJ1XC1H080D	C 8PF, D, 50V	
C3052	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3053	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3054	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3055	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3056	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3057	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3058	EEVHB0J101P	E 100UF, 6.3V	
C3059	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3060	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3061	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3062	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3063	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3064	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3065	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3066	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3067	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3068	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3069	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3070	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3071	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3072	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3073	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3074	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3075	ECJ1XB1H472K	C 4700PF, K, 50V	
C3076	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3077	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3078	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3079	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3080	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3081	ECJ3XF1C475Z	C 4.7UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3082	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3083	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3084	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3085	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3086	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3087	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3088	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3089	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3090	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3091	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3092	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3093	ECJ1XC1H330J	C 33PF, J, 50V	
C3094	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3095	ECJ1XC1H680J	C 68PF, J, 50V	
C3096	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3097	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3098	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3099	EEVHB0J101P	E 100UF, 6.3V	
C3100	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3101	ECJ1XC1H680J	C 68PF, J, 50V	
C3102	EEVHB0J101P	E 100UF, 6.3V	
C3103	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3104	ECJ1XC1H330J	C 33PF, J, 50V	
C3105	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3106	ECJ1XB1C104K	C 0.1UF, K, 16V	
C3107	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3108	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3109	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3110	EEVHP0J470	E 47UF, 6.3V	
C3111	EEVHP0J470	E 47UF, 6.3V	
C3112	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3113	EEVHP0J470	E 47UF, 6.3V	
C3114	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3115	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C3116	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3117	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3118	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3119	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3120	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3121	ECJ2XC1H221J	C 220PF, J, 50V	
C3122	ECJ2XC1H221J	C 220PF, J, 50V	
C3123	ECJ2XC1H221J	C 220PF, J, 50V	
C3124	ECJ2XC1H221J	C 220PF, J, 50V	
C3125	EEVHB1A330	E 33UF, 10V	
C3126	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3127	ECJ1XC1H220J	C 22PF, J, 50V	
C3128	ECJ1XC1H220J	C 22PF, J, 50V	
C3129	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3130	EEVHB1A330	E 33UF, 10V	
C3131	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3133	ECJ2XF1H103Z	C 0.01UF, Z, 50V	
C3134	ECJ1XC1H100D	C 10PF, D, 50V	
C3135	ECJ1XC1H100D	C 10PF, D, 50V	
C3137	ECJ1XB1C104K	C 0.1UF, K, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3139	EEVHB1A330	E 33UF, 10V	
C3140	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3141	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3142	ECJ1XC1H220J	C 22PF, J, 50V	
C3143	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C3144	ECJ1XC1H220J	C 22PF, J, 50V	
C3145	ECJ2XC1H101J	C 100PF, J, 50V	
C3146	ECJ2XC1H101J	C 100PF, J, 50V	
C3147	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3148	ECA1CM331	E 330UF, 16V	
C3149	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C3150	EEVHB1C220	E 22UF, 16V	
C4001	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C4002	ECA1CM471	E 470UF, 16V	
C4003	ECA1CM471	E 470UF, 16V	
C4004	ECA1CM471	E 470UF, 16V	
C4005	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4006	EEVHP0J470	E 47UF, 6.3V	
C4007	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4008	EEVHP0J470	E 47UF, 6.3V	
C4009	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4010	EEVHP0J470	E 47UF, 6.3V	
C4011	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4012	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4013	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4015	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C4016	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4017	EEVHP0J470	E 47UF, 6.3V	
C4018	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4019	EEVHP0J470	E 47UF, 6.3V	
C4020	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4021	EEVHP0J470	E 47UF, 6.3V	
C4022	EEVHP1E100	E 10UF, 25V	
C4023	EEVHP1E100	E 10UF, 25V	
C4024	EEVHP1E100	E 10UF, 25V	
C4025	ECJ2XB1H103K	C 0.01UF, K, 50V	
C4026	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4028	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C4029	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4030	EEVHP1C100R	E 10UF, 16V	
C4031	EEVHP1C100R	E 10UF, 16V	
C4033	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4034	EEVHB0J101P	E 100UF, 6.3V	
C4035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4036	EEVHP1C100R	E 10UF, 16V	
C4037	EEVHP1C100R	E 10UF, 16V	
C4039	EEVHB0J470	E 47UF, 6.3V	
C4040	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4042	EEVHB0J470	E 47UF, 6.3V	
C4043	ECJ2XC1H681J	C 680PF, J, 50V	
C4044	ECJ2XB1C683K	C0.068UF, K, 16V	
C4045	ECJ2XC1H101J	C 100PF, J, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4046	ECJ2XC1H101J	C 100PF, J, 50V	
C4047	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4048	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4050	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4053	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4054	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4055	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4056	EEVHB0J470	E 47UF, 6.3V	
C4057	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4058	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4059	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4060	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4061	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4062	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4063	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4064	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4065	EEVHB0J101P	E 100UF, 6.3V	
C4067	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4068	EEVHB0J101P	E 100UF, 6.3V	
C4069	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4070	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4071	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4072	ECJ2XF1C105Z	C 1UF, Z, 16V	
C4073	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4074	ECJ2XF1C105Z	C 1UF, Z, 16V	
C4075	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4076	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4078	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4079	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4080	EEVHB1C100	E 10UF, 16V	
C4081	EEVHB1C470P	E 47UF, 16V	
C4083	ECJ2XF1C105Z	C 1UF, Z, 16V	
C4084	ECJ1XB1C103K	C 0.01UF, K, 16V	
C4085	ECJ2XB1H472K	C 2700PF, K, 50V	
C4086	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4087	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4088	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4089	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4090	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4091	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4092	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4093	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4094	ECJ2XC1H391J	C 390PF, J, 50V	
C4095	EEVHB1C100	E 10UF, 16V	
C4096	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4097	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4099	ECJ1XC1H181J	C 180PF, J, 50V	
C4100	EEVHB1A330	E 33UF, 10V	
C4104	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C4105	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4108	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C4109	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4111	EEVHB1C470P	E 47UF, 16V	
C4112	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C4113	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4115	EEVHB0J470	E 47UF, 6.3V	
C4116	ECJ2XB1H103K	C 0.01UF, K, 50V	
C4117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C4120	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4121	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4122	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C4123	ECJ1XC1H151J	C 150PF, J, 50V	
C5001	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C5002	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5003	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5004	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5005	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5006	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5008	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5009	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5010	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5011	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5012	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C5013	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C5014	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5015	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C5016	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5017	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5018	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5021	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5023	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5024	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5025	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5026	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5027	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5028	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5029	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5030	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5031	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5032	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5033	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5034	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5035	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5036	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5037	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5038	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5039	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5040	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5041	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5042	ECJ2XB1E104K	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C5043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C5044	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5045	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5046	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5047	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5049	EEVHB0J470	E 47UF, 6.3V	
C5050	EEVHB1C470P	E 47UF, 16V	
C5051	EEVHB0J101P	E 100UF, 6.3V	
C5052	EEVHB0J101P	E 100UF, 6.3V	
C5053	EEVHB0J101P	E 100UF, 6.3V	
C5054	EEVHB0J101P	E 100UF, 6.3V	
C5055	EEVHB0J101P	E 100UF, 6.3V	
C5056	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5061	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5062	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5063	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C5064	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C7505	ECEA1CKA101	E 100UF, 16V	
C7506	ECEA1HKN010	E 1UF, 50V	
C7507	ECJ2XC1H102J	C 1000PF, J, 50V	
C7508	ECEA1EKA470	E 47UF, 25V	
C7509	ECJ2XC1H102J	C 1000PF, J, 50V	
C7510	ECEA1HKN010	E 1UF, 50V	
C7512	ECEA1CKA101	E 100UF, 16V	
C7513	ECA1CHG102	E 1000UF, 16V	
C7514	ECA1EEN470	E 47 UF, 25V	
C7515	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7516	ECA1EHG471	E 470UF, 25V	
C7517	ECEA1EKA470	E 47UF, 25V	
C7518	ECEA1AKA470	E 47UF, 10V	
C7520	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7521	ECA1EEN470	E 47 UF, 25V	
C7522	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7523	ECA1CHG102	E 1000UF, 16V	
C7524	ECEA1AKA470	E 47UF, 10V	
C7525	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7527	ECEA1EKA470	E 47UF, 25V	
C7528	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7529	ECEA1VKA470	E 47UF, 35V	
C7530	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7535	ECA1CHG471	E 470UF, 16V	
C7537	ECEA1EKA470	E 47UF, 25V	
C7538	ECEA1EKA470	E 47UF, 25V	
C7539	ECEA1EKA470	E 47UF, 25V	
C7540	ECJ2XF1C105Z	C 1UF, Z, 16V	
C7541	ECJ2XF1C105Z	C 1UF, Z, 16V	
C7542	ECJ2XF1C105Z	C 1UF, Z, 16V	
C7543	ECJ2XF1C105Z	C 1UF, Z, 16V	
C7544	ECJ2XF1C105Z	C 1UF, Z, 16V	
C7545	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7546	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7547	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7548	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7549	ECJ2XF1H104Z	C 0.1UF, Z, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C7550	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7551	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C7552	ECEA1EKA470	E 47UF, 25V	
C9101	ECQU2A225MLA	P 2.2UF, M,250V	⚠
C9102	ECQU2A225MLA	P 2.2UF, M,250V	⚠
C9103	ECKCNA332MEB	C 3300PF, M,	⚠
C9104	ECKCNA332MEB	C 3300PF, M,	⚠
C9201	ECQU2A105MLA	P 1UF, M,250V	⚠
C9202	ECQU2A105MLA	P 1UF, M,250V	⚠
C9203	ECKDNA222ME	C 2200PF, M,	⚠
C9204	ECJ2XC1H152J	C 1500PF, J, 50V	
C9205	ECA1HHG101	E 100UF, 50V	
C9206	ECJ2XF1C105Z	C 1UF, Z, 16V	
C9207	ECJ2XF1C474Z	C 0.47UF, Z, 16V	
C9209	ECKDNA222ME	C 2200PF, M,	⚠
C9210	F0C2G225A020	CAPACITOR	
C9212	ECJ2XC1H101J	C 100PF, J, 50V	
C9213	ECJ2XC1H102J	C 1000PF, J, 50V	
C9214	ECUV1C106KBP	CAPACITOR	
C9215	ECJ2XF1C105Z	C 1UF, Z, 16V	
C9216	ECJ2XF1C105Z	C 1UF, Z, 16V	
C9217	ECJ3XB1H104K	C 0.1UF, K, 50V	
C9218	ECJ2XC1H102J	C 1000PF, J, 50V	
C9219	ECKD3A101KBP	C 100PF, K, 1KV	
C9220	ECKD3A101KBP	C 100PF, K, 1KV	
C9221	ECKD3A471KBP	C 470PF, K, 1KV	
C9222	ECJ2XB1H103K	C 0.01UF, K, 50V	
C9223	ECA1EHG221	E 220UF, 25V	
C9224	EETED2W471L	CAPACITOR	
C9225	ECQE6473KF	P 0.47UF, K,630V	
C9226	EETED2W471L	CAPACITOR	
C9227	ECA1EHG221	E 220UF, 25V	
C9228	ECJ2XB1H103K	C 0.01UF, K, 50V	
C9229	ECQE6473KF	P 0.47UF, K,630V	
C9501	ECQE6473KF	P 0.47UF, K,630V	
C9502	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C9503	EEUFC1V151	E 150UF, 35V	
C9504	ECJ2XF1H103Z	C 0.01UF, Z, 50V	
C9505	ECJ2XC1H471J	C 470PF, J, 50V	
C9506	ECKD3A101KBP	C 100PF, K, 1KV	
C9507	ECJ2XC1H122J	C 1200PF, J, 50V	
C9508	EEUFC1V151	E 150UF, 35V	
C9509	ECWH10153JVB	CAPACITOR	
C9510	ECKCNA102MBB	C 1000PF, M,	⚠
C9511	ECJ2XF1H223Z	C 0.022UF, Z, 50V	
C9512	ECJ2XC1H102J	C 1000PF, J, 50V	
C9513	ECJ2XC1H102J	C 1000PF, J, 50V	
C9514	ECJ2XC1H102J	C 1000PF, J, 50V	
C9515	ECJ2XC1H102J	C 1000PF, J, 50V	
C9516	ECJ2XC1H102J	C 1000PF, J, 50V	
C9517	ECJ2XC1H102J	C 1000PF, J, 50V	
C9518	ECJ2XC1H102J	C 1000PF, J, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C9519	**EEUFC1E152**	**E 1500UF, 25V**	
C9520	**EEUFC1E152**	**E 1500UF, 25V**	
C9521	**ECJ2XC1H102J**	**C 1000PF, J, 50V**	
C9522	**ECJ2XC1H102J**	**C 1000PF, J, 50V**	
C9523	**EEUFC1E332S**	**E 2200UF, 25V**	
C9524	**EEUFC1E222S**	**E 2200UF, 25V**	
C9525	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9526	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9527	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9528	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9529	**ECJ2XF1C105Z**	**C 1UF, Z, 16V**	
C9530	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9531	**EEUFC1A471**	**E 470UF, 10V**	
C9532	**EEUFC1E102**	**E 1000UF, 25V**	
C9533	**ECJ2XF1C105Z**	**C 1UF, Z, 16V**	
C9534	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9536	**ECJ2XB1H103K**	**C 0.01UF, K, 50V**	
C9537	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9538	**ECJ2XF1C105Z**	**C 1UF, Z, 16V**	
C9539	**EEUFC1A272**	**E 2700UF, 10V**	
C9541	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9542	**ECJ2XB1H103K**	**C 0.01UF, K, 50V**	
C9543	**ECJ2XF1C105Z**	**C 1UF, Z, 16V**	
C9544	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9545	**ECJ2XC1H102J**	**C 1000PF, J, 50V**	
C9546	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9547	**ECJ2XF1H473Z**	**C 0.047UF, Z, 50V**	
C9548	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9549	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9550	**ECA1CHG101**	**E 100UF, 16V**	
C9551	**ECJ2XF1C105Z**	**C 1UF, Z, 16V**	
C9552	**ECJ2XB1H103K**	**C 0.01UF, K, 50V**	
C9553	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9554	**EEUFC1A272**	**E 2700UF, 10V**	
C9555	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9556	**ECJ2XB1H103K**	**C 0.01UF, K, 50V**	
C9557	**ECJ2XC1H101J**	**C 100PF, J, 50V**	
C9558	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9559	**ECJ2XF1H473Z**	**C 0.047UF, Z, 50V**	
C9560	**ECJ2XF1H104Z**	**C 0.1UF, Z, 50V**	
C9561	**ECJ2XC1H101J**	**C 100PF, J, 50V**	
C9562	**ECJ2XC1H222J**	**C 220PF, J, 50V**	
C9563	**ECUV1C106KBP**	**CAPACITOR**	
C9564	**ECJ2XC1H222J**	**C 220PF, J, 50V**	
C9566	**ECUV1C106KBP**	**CAPACITOR**	
[OTHERS]			
A1	**K1MN36B00014**	**36P CONNECTOR**	
A2	**K1MN36B00014**	**36P CONNECTOR**	
A3	**K1MN36B00014**	**36P CONNECTOR**	
A4	**K1KAA0A00088**	**100P CONNECTOR**	
A5	**K1KA80A00080**	**30P CONNECTOR**	
A6	**K1KB05B00019**	**5P CONNECTOR**	

Ref. No.	Part No.	Part Name & Description	Remarks
A7	TJSF43706	6P CONNECTOR	
A8	TJSF12410	10P CONNECTOR	
A9	TJSF11906	6P CONNECTOR	
A10	TJSF43711	11P CONNECTOR	
A11	K1KA02B00051	2P CONNECTOR	
A12	K1KA02B00051	2P CONNECTOR	
A13	TJSF43708	CONNECTOR	
A14	K1KA07A00132	7P CONNECTOR	
A15	TJSF43709	CONNECTOR	
A16	K1KA30A00106	30P CONNECTOR	
A17	TJSF43709	CONNECTOR	
A18	K1KA02B00051	2P CONNECTOR	
A24	TJS6A8780	3P CONNECTOR	
D1	K1KBA0B00011	100P CONNECTOR	
F9101-1	K3GE1PB00002	FUSE HOLDER	⚠
F9101-2	K3GE1PB00002	FUSE HOLDER	⚠
G1	TJSF43711	11P CONNECTOR	
G2	TJSF11906	6P CONNECTOR	
G3	K1KA02B00051	2P CONNECTOR	
G4	K1KA03A00088	3P CONNECTOR	
G5	TJS6A8780	3P CONNECTOR	
G6	TJS6A8780	3P CONNECTOR	
G7	K1KA03A00092	3P CONNECTOR	
G8	TJSF43703	3P CONNECTOR	
G9	K1KA03A00153	3P CONNECTOR	
G10	K1KA03A00153	3P CONNECTOR	
G11	K1KA02B00051	2P CONNECTOR	
G12	K1KA03A00153	3P CONNECTOR	
IC1032S	K3E020M00006	I.C SOCKET	
J1	K1KBA0B00011	100P CONNECTOR	
J2	K1KB80B00013	80P CONNECTOR	
J3	K1KA80A00080	80P CONNECTOR	
J4	K1KAA0A00088	100P CONNECTOR	
J5	K1KAA0A00088	100P CONNECTOR	
JK3001	TJSF42904	CONNECTOR	
JK3002	TJS1A4600	BNC CONNCTOR	
JK3003	TJS1A4600	BNC CONNCTOR	
JK3004	K2HA202B0027	AUDIO IN TERMINAL	
JK3005	TJS1A7250	HEADHONE JACK	
JK3006	TJS1A7250	HEADHONE JACK	
JK3007	K1FZ104E0002	USB IN TERMINAL	
JK3008	K1FZ104B0001	USB OUT TERMINAL	
JK3009	K1FB109B0058	RS232C IN TERMINAL	
JK3010	K1FA109B0042	RS232C OUT TERMINAL	
JK3011	TJSF32800	WIRED IN TERMINAL	
JK4001	K1FB115B0066	D-SUB 15P	
JK4002	K1FB115B0066	D-SUB 15P	
JK4003	TJS1A4600	BNC CONNCTOR	
JK4004	TJS1A4600	BNC CONNCTOR	
JK4005	TJS1A4600	BNC CONNCTOR	
JK4006	TJS1A4600	BNC CONNCTOR	
JK4007	TJS1A4600	BNC CONNCTOR	
JK4008	TJSF32800	WIRED OUT TERMINAL	
JK4009	K1FB109B0058	REMOTE TERMINAL	

Ref. No.	Part No.	Part Name & Description	Remarks
JK5001	K1FB124B0015	DVI-D IN TERMINAL	
JK5002	K1FB124B0015	DVI-D OUT TERMINAL	
JK7501	TJC6137	EARTH LUG	
JK7502	TJC6137	EARTH LUG	
JK9101	TJC6137	EARTH LUG	
JK9102	TJC6137	EARTH LUG	
JK9201	TJC6137	EARTH LUG	
JK9501	TJC6137	EARTH LUG	
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1002	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1003	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1004	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1005	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1006	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1007	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1008	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS3005	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS3006	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS3007	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS3008	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS3009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS3011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
K1	TJSF20602	2P CONNECTOR	
N9101	K2AH3G000009	AC INLET	⚠
P1	TJSF20702	3P CONNECTOR	
P3	TJS5A8100	CONNECTOR	
P4	TJS5A8100	CONNECTOR	
P5	TJSF45504	CONNECTOR	
R1	TJSF43709	CONNECTOR	
RL9201	K6B1AGA00084	RELAY	⚠
RM2501	TNQE076	REMOCON RECEIVER	
RM2601	TNQE076	REMOCON RECEIVER	
S1	K1KA07B00041	7P CONNECTOR	
S2601	EVQPLHA15	SWITCH	
S2602	EVQPLHA15	SWITCH	
S2603	EVQPLHA15	SWITCH	
S2604	EVQPLHA15	SWITCH	
S2605	EVQPLHA15	SWITCH	
S2606	EVQPLHA15	SWITCH	
S2607	EVQPLHA15	SWITCH	
S2608	EVQPLHA15	SWITCH	
S2609	EVQPLHA15	SWITCH	
S2610	EVQPLHA15	SWITCH	
S2611	EVQPLHA15	SWITCH	
S2612	EVQPLHA15	SWITCH	
S2613	EVQPLHA15	SWITCH	
S2614	EVQPLHA15	SWITCH	
S2615	EVQPLHA15	SWITCH	
S2616	EVQPLHA15	SWITCH	
S9101	K0AACE000013	POWER SWITCH	⚠
V1	K1KB80B00013	80P CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
X1	K1KBA0B00011	100P CONNECTOR	
X1001	H1A8305B0002	CRYSTAL	
X1002	TSSA124	CRYSTAL	
X1003	H0J983400001	CRYSTAL	
X1004	H1A6505B0003	CRYSTAL	
X1005	TSSA115	CRYSTAL OSCILATOR	
X3001	TSSA148	CRYSTAL	
X3002	H0J600400007	CRYSTAL	
X3003	H0J240500006	CRYSTAL	
Z1	TJSF45504	CONNECTOR	
Z3	K1KA03B00049	3P CONNECTOR	
Z4	TJS1A9490	6P CONNECTOR	
Z5	TJS6A9350	CONNECTOR	
Z9601	G4F5E0000001	INGITER	⚠
RTL	TNPA2099	CIRCUIT BOARD J	
RTL	TNPA2100	CIRCUIT BOARD V	
RTL	TNPA2101	CIRCUIT BOARD X	
RTL	TNPA2102	CIRCUIT BOARD D	
RTL	TNPA2105	CIRCUIT BOARD R	
RTL	TNPA2106	CIRCUIT BOARD S	
RTL	TNPA2108	CIRCUIT BOARD P	PT-L6500U,L6500UL,L6600U,L6600UL
RTL	TNPA2108AB	CIRCUIT BOARD P	PT-L6500E,L6500EL,L6600E,L6600EL
RTL	TNPA2109	CIRCUIT BOARD Z	
RTL	TNPA2112	CIRCUIT BOARD G	
RTL	TNPH0435	CIRCUIT BOARD A	PT-L6500U,L6500UL,L6500E,L6500EL
RTL	TNPH0434	CIRCUIT BOARD A	PT-L6600U,L6600UL,L6600E,L6600EL
RTL	TXANP02VJE4	BALLAST ASSY	
RTL	TXANP03VJE4	CIRCUIT BOARD K	PT-L6500U,L6500UL,L6600U,L6600UL
RTL	TXANP03PKHZ	CIRCUIT BOARD K	PT-L6500E,L6500EL,L6600E,L6600EL
RTL	TXANP06VJE4	BALLAST ASSY	

17.2. PT-L6600 Unique Parts (A-P.C.Boards)

Ref. No.	Part No.	Part Name & Description	Remarks
[INTEGRATED CIRCUIT]			
IC1001	PLPT16374A	I.C	
IC1002	PLPT16374A	I.C	
IC1003	PLPT16374A	I.C	
IC1004	PLPT16374A	I.C	
IC1005	PLPT16374A	I.C	
IC1006	C0JBAZ000855	I.C	
IC1007	C0JBAZ000855	I.C	
IC1008	C9ZB00000326	I.C	
IC1009	C0JBAZ000855	I.C	
IC1010	TVRJ428	I.C	
IC1011	MN8271AT	I.C	
IC1012	C3HBMJ000004	I.C	
IC1013	M51957BFP	I.C	
IC1014	MN82860	I.C	
IC1015	C0JBAZ000851	I.C	
IC1016	PLPT16374A	I.C	
IC1017	C0JBAZ000855	I.C	
IC1018	PLPT16374A	I.C	
IC1019	PLPT16374A	I.C	
IC1020	PLPT16374A	I.C	
IC1021	C0JBAZ000851	I.C	
IC1022	TC74LCX04FT	I.C	
IC1031	C0JBAZ000855	I.C	
IC1032	TVRJ499	I.C	
IC1033	C1ZBZ0001774	I.C	
IC1034	TC7W04FU	I.C	
IC1035	C0JBAZ000851	I.C	
IC1036	C0JBAZ000855	I.C	
IC1300	PQ05SZ5U	I.C	
IC1301	LB1831M	I.C	
IC1302	C3BBHG000047	I.C	
IC1303	TVRJ501-1	I.C	
IC1304	C0DBFFD00003	I.C	
IC1305	PQ3DZ13U	I.C	
IC1306	HD17709AF100	I.C	
IC1309	C0JBAZ001467	I.C	
IC1310	C0JBAZ001467	I.C	
IC1311	M51957BFP	I.C	
IC1312	24LC65TI/SM	I.C	
IC1313	JLC1562BF	I.C	
IC1314	C9ZB00000326	I.C	
IC1315	C0JBAZ001708	I.C	
IC1316	PQ07VZ012ZP	I.C	
IC1317	C1AB00001448	I.C	
IC1318	TVRJ537	I.C	
IC1319	C0JBAZ001467	I.C	
IC1320	C1ZBZ0001794	I.C	
IC1321	C0JBAZ001465	I.C	
IC1322	C0ZBZ0000534	I.C	
IC1323	TVRJ500	I.C	
IC1324	C2BBCB000012	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1326	PQ09SZ1T	I.C	
IC1327	LB1930M-TLM	I.C	
IC1600	C1AB00001400	I.C	
IC1601	C1AB00001400	I.C	
IC1602	C1AB00001400	I.C	
IC1603	C1AB00001398	I.C	
IC1604	C1AB00001398	I.C	
IC1605	M62399FP	I.C	
IC1606	C1AB00001273	I.C	
IC1607	C1AB00001273	I.C	
IC1608	C1AB00001273	I.C	
IC1609	C1AB00001273	I.C	
IC1610	C1AB00001273	I.C	
IC1611	C1AB00001273	I.C	
IC1612	C1AB00001273	I.C	
IC1613	C1AB00001273	I.C	
IC1614	C1AB00001273	I.C	
IC1615	C1AB00001273	I.C	
IC1616	C1AB00001273	I.C	
IC1617	C1AB00001273	I.C	
IC1618	C1AB00001267	I.C	
IC1619	C1AB00001267	I.C	
IC1620	C1AB00001267	I.C	
IC1623	MN1382R	I.C	
IC1624	PQ1R50	I.C	
IC1625	AN78L12M	I.C	
[TRANSISTORS]			
Q1000	2SK620	FET	
Q1001	2SK620	FET	
Q1003	2SD601AR	TRANSISTOR	
Q1301	2SD601AR	TRANSISTOR	
Q1302	2SD601AR	TRANSISTOR	
Q1306	2SD601AR	TRANSISTOR	
Q1307	2SD601AR	TRANSISTOR	
Q1308	2SD601AR	TRANSISTOR	
Q1309	2SD601AR	TRANSISTOR	
Q1310	2SK620	FET	
Q1311	2SK620	FET	
Q1312	2SD601AR	TRANSISTOR	
Q1313	2SB709A	TRANSISTOR	
Q1314	2SB709A	TRANSISTOR	
Q1315	2SB709A	TRANSISTOR	
Q1316	2SB709A	TRANSISTOR	
Q1317	2SD601AR	TRANSISTOR	
Q1318	2SB709A	TRANSISTOR	
Q1600	2SK620	FET	
Q1601	2SK620	FET	
Q1602	2SK620	FET	
Q1603	2SB709A	TRANSISTOR	
Q1604	2SB709A	TRANSISTOR	
Q1605	2SB709A	TRANSISTOR	
Q1606	2SB709A	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1607	2SB709A	TRANSISTOR	
Q1608	2SB709A	TRANSISTOR	
Q1609	2SD601AR	TRANSISTOR	
Q1610	2SD601AR	TRANSISTOR	
Q1611	2SD601AR	TRANSISTOR	
Q1612	2SD601AR	TRANSISTOR	
Q1613	2SD601AR	TRANSISTOR	
Q1614	2SD601AR	TRANSISTOR	
Q1615	2SD601AR	TRANSISTOR	
Q1616	2SB709A	TRANSISTOR	
Q1617	2SD601AR	TRANSISTOR	
Q1618	2SB709A	TRANSISTOR	
Q1619	2SD601AR	TRANSISTOR	
Q1620	2SB709A	TRANSISTOR	
Q1621	2SD601AR	TRANSISTOR	
Q1622	2SB709A	TRANSISTOR	
Q1623	2SD601AR	TRANSISTOR	
Q1624	2SB709A	TRANSISTOR	
Q1625	2SD601AR	TRANSISTOR	
Q1626	2SB709A	TRANSISTOR	
[DIODES]			
D1001	MA3056M	ZENER DIODE	
D1003	MA3056M	ZENER DIODE	
D1004	MA3056M	ZENER DIODE	
D1005	B3ABB0000089	LED	
D1011	D4B503390001	THERMISTOR	⚠
D1300	MA3056M	ZENER DIODE	
D1302	MA3056M	ZENER DIODE	
D1303	MA3056M	ZENER DIODE	
D1305	B3ABB0000089	LED	
[COILS]			
L1000	TLTAZ100K	PEAKING COIL	G1C100KA0002
L1001	TLTAZ100K	PEAKING COIL	
L1002	TLTAZ100K	PEAKING COIL	
L1004	TLTAZ100K	PEAKING COIL	
L1302	TLTAZ100K	PEAKING COIL	
L1303	ELJFA6R8JB	CHIP COIL	
L1304	ELJFA6R8JB	CHIP COIL	
L1305	TSKA108	CHOKE COIL	
L1306	TLTAZ100K	PEAKING COIL	
L1307	ELJFA6R8JB	CHIP COIL	
L1308	ELJFA6R8JB	CHIP COIL	
L1309	ELJFA6R8JB	CHIP COIL	
L1310	ELJFA6R8JB	CHIP COIL	
L1311	ELJFA6R8JB	CHIP COIL	
L1312	ELJFA6R8JB	CHIP COIL	
L1600	ELJFA6R8JB	CHIP COIL	
L1601	ELJFA6R8JB	CHIP COIL	
L1602	ELJFA6R8JB	CHIP COIL	
L1603	ELJFA6R8JB	CHIP COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L1604	ELJFA6R8JB	CHIP COIL	
L1605	ELJFA6R8JB	CHIP COIL	
L1606	ELJFA6R8JB	CHIP COIL	
L1607	ELJFA6R8JB	CHIP COIL	
L1608	ELJFA6R8JB	CHIP COIL	
L1609	ELJFA6R8JB	CHIP COIL	
L1610	ELJFA6R8JB	CHIP COIL	
L1611	ELJFA6R8JB	CHIP COIL	
L1612	ELJFA6R8JB	CHIP COIL	
L1613	ELJFA6R8JB	CHIP COIL	
L1614	ELJFA6R8JB	CHIP COIL	
L1615	ELJFA6R8JB	CHIP COIL	
L1616	ELJFA6R8JB	CHIP COIL	
L1617	ELJFA6R8JB	CHIP COIL	
L1618	ELJFA6R8JB	CHIP COIL	
L1619	ELJFA6R8JB	CHIP COIL	
L1620	ELJFA6R8JB	CHIP COIL	
L1621	ELJFA6R8JB	CHIP COIL	
L1622	ELJFA6R8JB	CHIP COIL	
L1623	ELJFA6R8JB	CHIP COIL	
L1624	ELJFA6R8JB	CHIP COIL	
L1625	ELJFA6R8JB	CHIP COIL	
L1626	ELJFA6R8JB	CHIP COIL	
L1627	ELJFA6R8JB	CHIP COIL	
L1628	ELJFA6R8JB	CHIP COIL	
L1629	ELJFA6R8JB	CHIP COIL	
L1630	ELJFA6R8JB	CHIP COIL	
L1631	TLTAZ100K	PEAKING COIL	
LC1000	EXCCET103U	EMI FILTER	
LC1001	EXCCET103U	EMI FILTER	
LC1002	EXCCET103U	EMI FILTER	
LC1003	EXCCET103U	EMI FILTER	
LC1004	EXCCET103U	EMI FILTER	
LC1005	EXCCET103U	EMI FILTER	
LC1006	EXCCET103U	EMI FILTER	
LC1007	EXCCET103U	EMI FILTER	
LC1008	EXCCET103U	EMI FILTER	
LC1009	EXCCET103U	EMI FILTER	
LC1010	EXCCET103U	EMI FILTER	
LC1014	EXCCET103U	EMI FILTER	
LC1015	EXCCET103U	EMI FILTER	
LC1019	EXCCET103U	EMI FILTER	
LC1300	EXCCET103U	EMI FILTER	
LC1301	EXCCET103U	EMI FILTER	
LC1302	EXCCET103U	EMI FILTER	
LC1303	EXCCET103U	EMI FILTER	
LC1304	EXCCET103U	EMI FILTER	
LC1305	EXCCET103U	EMI FILTER	
LC1306	EXCCET103U	EMI FILTER	
LC1307	EXCCET103U	EMI FILTER	
LC1308	EXCCET103U	EMI FILTER	
LC1309	EXCCET103U	EMI FILTER	
LC1310	EXCCET103U	EMI FILTER	
LC1311	EXCCET103U	EMI FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
LC1312	**EXCCET103U**	**EMI FILTER**	
LC1313	**EXCCET103U**	**EMI FILTER**	
LC1600	**EXCCET103U**	**EMI FILTER**	
LC1601	**EXCCET103U**	**EMI FILTER**	
LC1602	**EXCCET103U**	**EMI FILTER**	
LC1603	**EXCCET103U**	**EMI FILTER**	
LC1604	**EXCCET103U**	**EMI FILTER**	
LC1605	**EXCCET103U**	**EMI FILTER**	
LC1606	**EXCCET103U**	**EMI FILTER**	
LC1610	**EXCCET103U**	**EMI FILTER**	
[RESISTORS]			
R1000	**EXB38V220J**	**RESISTOR ARRAY**	
R1001	**EXB38V220J**	**RESISTOR ARRAY**	
R1002	**EXB38V220J**	**RESISTOR ARRAY**	
R1003	**EXB38V220J**	**RESISTOR ARRAY**	
R1004	**EXB38V220J**	**RESISTOR ARRAY**	
R1005	**EXB38V220J**	**RESISTOR ARRAY**	
R1006	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1007	**EXB38V220J**	**RESISTOR ARRAY**	
R1008	**EXB38V220J**	**RESISTOR ARRAY**	
R1009	**EXB38V220J**	**RESISTOR ARRAY**	
R1010	**EXB38V220J**	**RESISTOR ARRAY**	
R1011	**EXB38V220J**	**RESISTOR ARRAY**	
R1012	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1013	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1014	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1015	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1016	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1017	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1018	**EXB38V220J**	**RESISTOR ARRAY**	
R1020	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R1021	**EXB38V220J**	**RESISTOR ARRAY**	
R1022	**EXB38V220J**	**RESISTOR ARRAY**	
R1023	**EXB38V220J**	**RESISTOR ARRAY**	
R1024	**EXB38V220J**	**RESISTOR ARRAY**	
R1027	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R1029	**EXB38V220J**	**RESISTOR ARRAY**	
R1030	**EXB38V220J**	**RESISTOR ARRAY**	
R1031	**EXB38V220J**	**RESISTOR ARRAY**	
R1032	**EXB38V220J**	**RESISTOR ARRAY**	
R1033	**EXB38V220J**	**RESISTOR ARRAY**	
R1034	**EXB38V220J**	**RESISTOR ARRAY**	
R1035	**EXB38V220J**	**RESISTOR ARRAY**	
R1036	**EXB38V220J**	**RESISTOR ARRAY**	
R1037	**EXB38V220J**	**RESISTOR ARRAY**	
R1038	**EXB38V220J**	**RESISTOR ARRAY**	
R1039	**EXB38V220J**	**RESISTOR ARRAY**	
R1040	**EXB38V220J**	**RESISTOR ARRAY**	
R1041	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R1042	**EXB38V220J**	**RESISTOR ARRAY**	
R1043	**EXB38V220J**	**RESISTOR ARRAY**	
R1044	**EXB38V220J**	**RESISTOR ARRAY**	

Ref. No.	Part No.	Part Name & Description	Remarks
R1045	EXB38V220J	RESISTOR ARRAY	
R1046	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1047	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1048	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1049	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1050	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1051	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1052	EXB38V220J	RESISTOR ARRAY	
R1053	EXB38V220J	RESISTOR ARRAY	
R1054	EXB38V220J	RESISTOR ARRAY	
R1055	EXB38V220J	RESISTOR ARRAY	
R1056	EXB38V220J	RESISTOR ARRAY	
R1057	EXB38V220J	RESISTOR ARRAY	
R1058	EXB38V220J	RESISTOR ARRAY	
R1059	EXB38V220J	RESISTOR ARRAY	
R1060	EXB38V220J	RESISTOR ARRAY	
R1061	EXB38V220J	RESISTOR ARRAY	
R1062	EXB38V220J	RESISTOR ARRAY	
R1063	EXB38V220J	RESISTOR ARRAY	
R1064	EXB38V220J	RESISTOR ARRAY	
R1065	EXB38V220J	RESISTOR ARRAY	
R1066	EXB38V220J	RESISTOR ARRAY	
R1067	EXB38V220J	RESISTOR ARRAY	
R1068	EXB38V220J	RESISTOR ARRAY	
R1069	EXB38V220J	RESISTOR ARRAY	
R1070	EXB38V220J	RESISTOR ARRAY	
R1071	EXB38V220J	RESISTOR ARRAY	
R1072	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1073	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1074	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1075	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1076	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1077	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1078	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1079	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1081	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1082	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1084	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1085	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1086	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1087	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1088	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1089	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1090	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1091	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1092	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1093	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1095	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1096	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1097	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1098	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1099	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1100	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1101	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1102	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1103	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1104	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1105	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1106	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1107	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1108	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1109	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1111	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1112	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1113	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1114	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1115	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1116	EXB38V220J	RESISTOR ARRAY	
R1117	EXB38V220J	RESISTOR ARRAY	
R1118	EXB38V220J	RESISTOR ARRAY	
R1119	EXB38V220J	RESISTOR ARRAY	
R1120	EXB38V220J	RESISTOR ARRAY	
R1121	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1122	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1123	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1124	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1125	EXB38V220J	RESISTOR ARRAY	
R1126	EXB38V220J	RESISTOR ARRAY	
R1127	EXB38V220J	RESISTOR ARRAY	
R1128	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1138	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1139	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1140	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1143	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1144	EXB38V560J	RESISTOR ARRAY	
R1145	EXB38V560J	RESISTOR ARRAY	
R1146	EXB38V560J	RESISTOR ARRAY	
R1147	EXB38V560J	RESISTOR ARRAY	
R1148	EXB38V560J	RESISTOR ARRAY	
R1149	EXB38V560J	RESISTOR ARRAY	
R1150	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1151	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1157	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1158	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1159	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1161	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1162	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1164	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1165	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1166	EXB38V220J	RESISTOR ARRAY	
R1167	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1168	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1171	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1172	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1173	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1174	ERJ3GEYJ473	M 47K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1175	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1176	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1177	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1179	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1180	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1181	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1183	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1184	EXB38V220J	RESISTOR ARRAY	
R1185	EXB38V220J	RESISTOR ARRAY	
R1186	EXB38V220J	RESISTOR ARRAY	
R1187	EXB38V220J	RESISTOR ARRAY	
R1188	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1189	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1190	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1191	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1192	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1193	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1195	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1196	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1197	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1198	EXB38V560J	RESISTOR ARRAY	
R1199	EXB38V560J	RESISTOR ARRAY	
R1200	EXB38V560J	RESISTOR ARRAY	
R1201	EXB38V560J	RESISTOR ARRAY	
R1202	EXB38V560J	RESISTOR ARRAY	
R1203	EXB38V560J	RESISTOR ARRAY	
R1204	EXB38V560J	RESISTOR ARRAY	
R1205	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1206	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1207	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1208	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1209	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1210	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1211	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1212	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1213	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1214	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1216	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1217	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1219	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1221	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1222	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1224	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1225	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1226	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1230	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1231	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1232	EXB38V220J	RESISTOR ARRAY	
R1233	EXB38V220J	RESISTOR ARRAY	
R1234	EXB38V220J	RESISTOR ARRAY	
R1235	EXB38V220J	RESISTOR ARRAY	
R1236	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1237	EXB38V220J	RESISTOR ARRAY	
R1238	EXB38V220J	RESISTOR ARRAY	
R1239	EXB38V220J	RESISTOR ARRAY	
R1240	EXB38V220J	RESISTOR ARRAY	
R1241	EXB38V220J	RESISTOR ARRAY	
R1242	EXB38V220J	RESISTOR ARRAY	
R1243	EXB38V220J	RESISTOR ARRAY	
R1244	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1247	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1249	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1250	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1251	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1252	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1253	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1254	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1255	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1256	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1259	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1300	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1301	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1302	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1303	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1304	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1305	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1306	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1307	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1308	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1309	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1310	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1311	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1312	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1313	EXB38V220J	RESISTOR ARRAY	
R1314	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1315	EXB38V220J	RESISTOR ARRAY	
R1316	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1317	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1318	EXB38V220J	RESISTOR ARRAY	
R1319	EXB38V220J	RESISTOR ARRAY	
R1320	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1321	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1326	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1327	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1328	EXB38V220J	RESISTOR ARRAY	
R1329	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1330	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1331	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1332	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1333	EXB38V220J	RESISTOR ARRAY	
R1334	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1335	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1336	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1337	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1338	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1339	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1340	EXB38V220J	RESISTOR ARRAY	
R1341	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1342	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1343	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1344	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1345	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1346	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1347	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1348	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1349	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1350	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1351	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1352	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1353	EXB38V220J	RESISTOR ARRAY	
R1354	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1355	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1356	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1357	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1358	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1359	EXB38V220J	RESISTOR ARRAY	
R1360	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1361	EXB38V220J	RESISTOR ARRAY	
R1362	EXB38V220J	RESISTOR ARRAY	
R1363	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1364	EXB38V220J	RESISTOR ARRAY	
R1365	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1366	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1367	EXB38V220J	RESISTOR ARRAY	
R1368	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1369	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R1370	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1371	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R1372	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1373	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1374	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1375	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1376	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1377	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1379	EXB38V220J	RESISTOR ARRAY	
R1380	EXB38V220J	RESISTOR ARRAY	
R1381	EXB38V220J	RESISTOR ARRAY	
R1382	EXB38V220J	RESISTOR ARRAY	
R1383	EXB38V220J	RESISTOR ARRAY	
R1384	EXB38V220J	RESISTOR ARRAY	
R1385	EXB38V220J	RESISTOR ARRAY	
R1386	EXB38V220J	RESISTOR ARRAY	
R1388	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1390	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1392	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1393	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1394	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1395	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1396	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1397	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1398	EXB38V220J	RESISTOR ARRAY	
R1399	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1400	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1401	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1402	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1403	EXB38V220J	RESISTOR ARRAY	
R1404	EXB38V102J	RESISTOR ARRAY	
R1405	EXB38V220J	RESISTOR ARRAY	
R1406	EXB38V220J	RESISTOR ARRAY	
R1407	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1408	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1409	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1410	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1411	EXB38V220J	RESISTOR ARRAY	
R1412	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1413	EXB38V220J	RESISTOR ARRAY	
R1414	EXB38V220J	RESISTOR ARRAY	
R1415	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1416	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1417	EXB38V220J	RESISTOR ARRAY	
R1418	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1419	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1421	EXB38V220J	RESISTOR ARRAY	
R1422	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1423	EXB38V220J	RESISTOR ARRAY	
R1424	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1425	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1426	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1427	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1428	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1429	EXB38V220J	RESISTOR ARRAY	
R1430	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1431	EXB38V220J	RESISTOR ARRAY	
R1432	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1433	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1434	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1435	EXB38V220J	RESISTOR ARRAY	
R1436	EXB38V220J	RESISTOR ARRAY	
R1437	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1438	EXB38V220J	RESISTOR ARRAY	
R1439	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1440	EXB38V220J	RESISTOR ARRAY	
R1441	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1442	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1443	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1444	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1445	EXB38V220J	RESISTOR ARRAY	
R1446	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1447	EXB38V220J	RESISTOR ARRAY	
R1448	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1449	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1450	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1451	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1452	EXB38V220J	RESISTOR ARRAY	
R1453	EXB38V220J	RESISTOR ARRAY	
R1454	EXB38V220J	RESISTOR ARRAY	
R1455	EXB38V220J	RESISTOR ARRAY	
R1456	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1457	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1458	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1459	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1460	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1461	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1462	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1463	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1464	EXB38V220J	RESISTOR ARRAY	
R1465	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1466	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1467	EXB38V220J	RESISTOR ARRAY	
R1468	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1469	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1470	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1471	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1472	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1473	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1474	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1475	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1476	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1477	EXB38V220J	RESISTOR ARRAY	
R1478	EXB38V220J	RESISTOR ARRAY	
R1479	EXB38V220J	RESISTOR ARRAY	
R1480	EXB38V220J	RESISTOR ARRAY	
R1481	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1482	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1484	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1485	EXB38V220J	RESISTOR ARRAY	
R1486	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1487	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1488	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1489	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1490	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1491	EXB38V103J	RESISTOR ARRAY	
R1492	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1493	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1494	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1495	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1496	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1497	EXB38V220J	RESISTOR ARRAY	
R1498	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1499	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1500	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1501	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1502	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1503	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1504	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1505	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1506	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1507	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1508	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1509	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1510	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1511	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1512	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1513	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1514	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1515	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1516	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1517	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1518	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1519	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1520	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1521	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1522	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1523	EXB38V472J	RESISTOR ARRAY	
R1524	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1525	EXB38V472J	RESISTOR ARRAY	
R1526	EXB38V472J	RESISTOR ARRAY	
R1527	EXB38V472J	RESISTOR ARRAY	
R1528	EXB38V472J	RESISTOR ARRAY	
R1529	EXB38V472J	RESISTOR ARRAY	
R1530	EXB38V220J	RESISTOR ARRAY	
R1531	EXB38V220J	RESISTOR ARRAY	
R1532	EXB38V220J	RESISTOR ARRAY	
R1533	EXB38V220J	RESISTOR ARRAY	
R1534	EXB38V220J	RESISTOR ARRAY	
R1535	EXB38V220J	RESISTOR ARRAY	
R1536	EXB38V220J	RESISTOR ARRAY	
R1537	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1538	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1540	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1541	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1542	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1543	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1544	EXB38V220J	RESISTOR ARRAY	
R1545	EXB38V220J	RESISTOR ARRAY	
R1546	EXB38V220J	RESISTOR ARRAY	
R1547	EXB38V220J	RESISTOR ARRAY	
R1548	EXB38V220J	RESISTOR ARRAY	
R1549	EXB38V220J	RESISTOR ARRAY	
R1550	EXB38V220J	RESISTOR ARRAY	
R1551	EXB38V220J	RESISTOR ARRAY	
R1552	EXB38V220J	RESISTOR ARRAY	
R1553	EXB38V220J	RESISTOR ARRAY	
R1554	EXB38V220J	RESISTOR ARRAY	
R1555	EXB38V220J	RESISTOR ARRAY	
R1556	EXB38V220J	RESISTOR ARRAY	
R1557	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1558	ERJ6ENF1001	M 1KOHM, 1/10W	
R1559	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1560	ERJ6ENF1001	M 1KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1561	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1562	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1563	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1564	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1565	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1566	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1567	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1568	EXB38V220J	RESISTOR ARRAY	
R1569	EXB38V220J	RESISTOR ARRAY	
R1570	EXB38V220J	RESISTOR ARRAY	
R1571	EXB38V220J	RESISTOR ARRAY	
R1572	EXB38V220J	RESISTOR ARRAY	
R1573	EXB38V220J	RESISTOR ARRAY	
R1574	EXB38V220J	RESISTOR ARRAY	
R1575	EXB38V220J	RESISTOR ARRAY	
R1576	EXB38V220J	RESISTOR ARRAY	
R1577	EXB38V220J	RESISTOR ARRAY	
R1578	EXB38V220J	RESISTOR ARRAY	
R1579	EXB38V220J	RESISTOR ARRAY	
R1580	EXB38V220J	RESISTOR ARRAY	
R1581	EXB38V220J	RESISTOR ARRAY	
R1582	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1583	EXB38V220J	RESISTOR ARRAY	
R1584	EXB38V220J	RESISTOR ARRAY	
R1585	EXB38V220J	RESISTOR ARRAY	
R1586	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1587	EXB38V220J	RESISTOR ARRAY	
R1588	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1589	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1590	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1591	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1592	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1593	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1594	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1595	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1596	EXB38V220J	RESISTOR ARRAY	
R1597	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1598	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1599	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1601	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1602	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1603	EXB38V220J	RESISTOR ARRAY	
R1604	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1605	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1606	EXB38V220J	RESISTOR ARRAY	
R1607	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1609	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1610	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1611	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1612	EXB38V220J	RESISTOR ARRAY	
R1613	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1614	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1615	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1616	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1617	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1618	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1619	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1621	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1622	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1623	**EXB38V220J**	**RESISTOR ARRAY**	
R1625	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1627	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1630	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R1632	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1633	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1634	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1635	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1636	**EXB38V220J**	**RESISTOR ARRAY**	
R1637	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1640	**EXB38V220J**	**RESISTOR ARRAY**	
R1641	**ERJ6GEYJ220**	**M 22 OHM,J,1/10W**	
R1642	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1643	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1646	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1647	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1649	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1652	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1654	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1655	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1656	**ERJ6GEYJ220**	**M 22 OHM,J,1/10W**	
R1657	**ERJ3GEYJ152**	**M 1.5KOHM,J,1/16W**	
R1660	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1661	**ERJ6GEYJ220**	**M 22 OHM,J,1/10W**	
R1662	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1663	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1665	**ERJ3GEYJ223**	**M 22K OHM,J,1/16W**	
R1666	**EXB38V472J**	**RESISTOR ARRAY**	
R1667	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1670	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1671	**ERJ6EGYJ472**	**M 4.7KOHM,J,1/10W**	
R1672	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1674	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1675	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1676	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1677	**EXB38V220J**	**RESISTOR ARRAY**	
R1678	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1679	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	
R1680	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1681	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	
R1682	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1683	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R1684	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	
R1685	**ERJ6GEYJ220**	**M 22 OHM,J,1/10W**	
R1686	**ERJ6GEYJ220**	**M 22 OHM,J,1/10W**	
R1687	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1688	**EXB38V220J**	**RESISTOR ARRAY**	
R1689	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	
R1691	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	

Ref. No.	Part No.	Part Name & Description	Remarks
R1692	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1693	EXB38V220J	RESISTOR ARRAY	
R1694	EXB38V220J	RESISTOR ARRAY	
R1695	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1696	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1697	EXB38V220J	RESISTOR ARRAY	
R1698	EXB38V220J	RESISTOR ARRAY	
R1699	EXB38V220J	RESISTOR ARRAY	
R1700	EXB38V220J	RESISTOR ARRAY	
R1701	EXB38V220J	RESISTOR ARRAY	
R1702	EXB38V220J	RESISTOR ARRAY	
R1703	EXB38V220J	RESISTOR ARRAY	
R1704	EXB38V220J	RESISTOR ARRAY	
R1705	EXB38V220J	RESISTOR ARRAY	
R1706	EXB38V220J	RESISTOR ARRAY	
R1707	EXB38V220J	RESISTOR ARRAY	
R1708	EXB38V220J	RESISTOR ARRAY	
R1709	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1710	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1711	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1712	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1713	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1714	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1721	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1722	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1728	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1730	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1732	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1734	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1736	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1738	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1739	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1740	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1741	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1742	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1743	EXB38V220J	RESISTOR ARRAY	
R1744	EXB38V220J	RESISTOR ARRAY	
R1745	EXB38V220J	RESISTOR ARRAY	
R1746	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1747	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1748	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1749	EXB38V220J	RESISTOR ARRAY	
R1750	EXB38V220J	RESISTOR ARRAY	
R1751	EXB38V220J	RESISTOR ARRAY	
R1752	EXB38V220J	RESISTOR ARRAY	
R1753	EXB38V220J	RESISTOR ARRAY	
R1754	EXB38V220J	RESISTOR ARRAY	
R1755	EXB38V220J	RESISTOR ARRAY	
R1756	EXB38V220J	RESISTOR ARRAY	
R1757	EXB38V220J	RESISTOR ARRAY	
R1758	EXB38V220J	RESISTOR ARRAY	
R1759	EXB38V220J	RESISTOR ARRAY	
R1760	EXB38V220J	RESISTOR ARRAY	
R1761	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1762	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1763	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1764	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1765	EXB38V220J	RESISTOR ARRAY	
R1766	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1769	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1770	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1771	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1772	EXB38V220J	RESISTOR ARRAY	
R1773	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1774	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1775	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1776	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1777	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1778	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1779	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1780	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1781	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1782	EXB38V220J	RESISTOR ARRAY	
R1783	EXB38V220J	RESISTOR ARRAY	
R1784	EXB38V220J	RESISTOR ARRAY	
R1785	EXB38V220J	RESISTOR ARRAY	
R1786	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1787	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1788	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1789	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1790	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1791	EXB38V220J	RESISTOR ARRAY	
R1792	EXB38V220J	RESISTOR ARRAY	
R1793	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1794	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1795	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1796	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1797	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1798	EXB38V220J	RESISTOR ARRAY	
R1799	EXB38V220J	RESISTOR ARRAY	
R1800	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1801	EXB38V220J	RESISTOR ARRAY	
R1802	EXB38V220J	RESISTOR ARRAY	
R1803	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1804	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1805	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1806	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1807	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1808	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1809	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1810	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1811	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1812	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1813	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1814	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1815	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1816	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1817	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1818	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1819	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1820	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1821	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1822	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1823	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1824	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1825	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1826	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1827	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1828	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1829	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1830	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1831	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1832	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1833	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1834	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1835	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1836	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1837	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1838	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1839	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1840	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1841	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1842	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1843	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1844	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1845	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1846	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1847	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1848	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1849	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1850	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1851	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1852	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1853	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1854	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1855	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1856	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1857	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1858	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1859	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1860	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1861	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1862	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1863	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1864	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1865	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1866	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1867	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1868	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1869	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1870	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1871	ERJ3GEYJ331	M 330 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1872	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1876	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1877	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1878	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1879	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1880	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1881	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1882	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1883	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1884	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1885	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1886	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1887	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1888	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1889	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1890	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1891	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1892	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1893	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1894	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1895	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1896	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1897	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1898	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1899	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1900	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1901	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1902	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1903	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1904	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1905	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1906	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1907	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1908	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1909	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1910	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1911	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1912	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1913	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1914	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1915	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1916	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1917	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1918	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1919	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1920	ERJ12YJ332	M 3.3KOHM, 1/2W	
R1921	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1922	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1923	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1924	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1925	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1926	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1927	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1928	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1929	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1930	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1931	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1932	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1933	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1934	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1935	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1936	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1937	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1938	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1939	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1940	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1941	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1942	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1943	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1944	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1945	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1946	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1947	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1948	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1949	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1950	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1951	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1952	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1953	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1954	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1955	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1956	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1957	EXB38V472J	RESISTOR ARRAY	
R1958	EXB38V472J	RESISTOR ARRAY	
R1959	EXB38V472J	RESISTOR ARRAY	
R1960	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1961	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1962	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1963	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1964	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1965	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1966	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1967	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1968	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1969	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1970	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1971	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1972	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1973	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1974	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1975	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1976	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1977	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1978	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1979	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1980	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1981	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1982	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1983	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1985	**ERJ3GEYJ472**	**M 4.7KOHM,J,1/16W**	
R1986	**ERJ3GEYJ272**	**M 2.7KOHMJ,J1/16W**	
R1987	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1988	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1989	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1990	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1991	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1992	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1993	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1994	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1995	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1996	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R1997	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1998	**ERJ3GEYJ562**	**M 5.6KOHM,J,1/16W**	
R1999	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	
R2106	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2107	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2108	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2109	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2110	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2112	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2114	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2115	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2116	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2118	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2119	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2120	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2122	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2123	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2125	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2127	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2128	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2129	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2131	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2132	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2133	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2134	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2135	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2136	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2137	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2138	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2139	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R2140	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2142	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2143	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2144	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2145	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2146	**ERJ3GEY0R00**	**M 0 OHM, 1/16W**	
R2148	**ERJ3GEYJ330**	**M 33 OHM,J,1/16W**	
R2150	**ERJ3GEYJ330**	**M 33 OHM,J,1/16W**	
R2154	**ERJ3GEYJ330**	**M 33 OHM,J,1/16W**	
R2156	**ERJ3GEYJ330**	**M 33 OHM,J,1/16W**	
R2157	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	

Ref. No.	Part No.	Part Name & Description	Remarks
R2159	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R2161	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R2163	EXB38V472J	RESISTOR ARRAY	
R2164	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2165	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2166	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2167	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2169	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2170	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2171	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2172	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2173	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2174	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2175	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2176	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R2177	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R2178	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R2190	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R2195	ERJ3GEYJ473	M 47K OHM,J,1/16W	
		[CAPACITORS]	
C1000	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1001	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1003	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1004	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1005	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1006	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1008	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1009	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1010	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1011	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1012	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1013	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1014	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1015	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1016	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1017	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1018	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1021	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1023	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1024	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1025	EEVHB1A330	E 33UF, 10V	
C1026	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1028	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1029	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1030	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1031	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1032	ECJ2XB1C104K	C 0.1UF, K, 16V	
C1033	ECJ1XB1H222K	C 2200PF, K, 50V	
C1034	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1036	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1037	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1038	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1039	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1040	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1042	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1044	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1045	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1046	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1047	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1048	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1050	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1051	EEVHB0J470	E 47UF, 6.3V	
C1052	EEVHB0J470	E 47UF, 6.3V	
C1053	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1054	EEVHB0J220	E 22UF, 6.3V	
C1055	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1056	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1057	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1058	ECJ2XB1C104K	C 0.1UF, K, 16V	
C1059	ECJ1XB1H222K	C 2200PF, K, 50V	
C1060	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1061	EEVHB0J470	E 47UF, 6.3V	
C1062	ECJ2XF1E104Z	C 0.1UF, Z, 25V	
C1063	EEVHB0J101P	E 100UF, 6.3V	
C1064	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1065	ECJ1XC1H330J	C 33PF, J, 50V	
C1066	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1067	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1068	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1069	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1070	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1071	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1072	ECJ1XB1C473K	C0.047UF, K, 16V	
C1074	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1075	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1076	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1078	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1079	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1080	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1081	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1082	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1083	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1084	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1085	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1086	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1087	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1088	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1089	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1090	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1091	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1092	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1093	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1094	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1095	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1096	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1097	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1098	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1099	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1100	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1101	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1102	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1103	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1104	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1105	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1106	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1121	EEVHB1A330	E 33UF, 10V	
C1122	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1123	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1124	EEVHB0J470	E 47UF, 6.3V	
C1129	EEVHB1E4R7	E 4.7UF, 25V	
C1130	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1131	EEVHB0J470	E 47UF, 6.3V	
C1133	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1138	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1139	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1140	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1141	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1142	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1143	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1144	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1145	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1146	EEVHB0J101P	E 100UF, 6.3V	
C1147	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1148	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1149	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1150	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1152	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1153	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1155	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1156	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1157	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1158	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1159	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1160	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1161	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1162	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1163	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1164	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1165	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1166	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1167	ECJ1XC1H330J	C 33PF, J, 50V	
C1168	EEVHB0J470	E 47UF, 6.3V	
C1169	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1170	EEVHB0J470	E 47UF, 6.3V	
C1171	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1176	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1177	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1178	EEVHB0J220	E 22UF, 6.3V	
C1179	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1180	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1300	EEVHB1C470P	E 47UF, 16V	
C1301	ECJ2XC1H101J	C 100PF, J, 50V	
C1302	ECJ2XC1H101J	C 100PF, J, 50V	
C1303	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1304	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1305	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1306	EEVHB1C470P	E 47UF, 16V	
C1307	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1308	EEVHB1C470P	E 47UF, 16V	
C1309	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1310	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1311	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1312	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1313	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1314	EEVHB1C470P	E 47UF, 16V	
C1315	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1316	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1317	ECJ2XC1H101J	C 100PF, J, 50V	
C1318	EEVHB0J470	E 47UF, 6.3V	
C1319	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1320	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1321	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1322	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1323	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1324	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1325	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1326	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1327	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1328	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1329	ECJ1XC1H150J	C 15PF, J, 50V	
C1330	ECJ1XC1H150J	C 15PF, J, 50V	
C1331	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1332	ECJ2XC1H101J	C 100PF, J, 50V	
C1333	ECJ2XC1H101J	C 100PF, J, 50V	
C1334	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1335	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1336	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1338	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1339	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1340	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1341	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1342	ECJ1XC1H101J	C 100PF, J, 50V	
C1343	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1344	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1345	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1346	ECJ1XC1H101J	C 100PF, J, 50V	
C1347	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1348	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1349	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1350	ECJ2XC1H471J	C 470PF, J, 50V	
C1351	ECJ2XC1H471J	C 470PF, J, 50V	
C1352	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1353	ECJ1XC1H220J	C 22PF, J, 50V	
C1354	ECJ1XC1H220J	C 22PF, J, 50V	
C1355	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1356	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1357	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1358	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1359	EEVHB0J470	E 47UF, 6.3V	
C1360	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1361	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1362	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1363	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1364	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1365	ECJ2XC1H101J	C 100PF, J, 50V	
C1366	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1367	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1368	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1369	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1370	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1371	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1372	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1373	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1374	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1375	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1376	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1377	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1378	EEVHB0J470	E 47UF, 6.3V	
C1379	EEVHB0J101P	E 100UF, 6.3V	
C1380	EEVHB0J101P	E 100UF, 6.3V	
C1381	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1382	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1383	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1384	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1385	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1386	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1387	ECJ2XB1H471K	C 470PF, K, 50V	
C1388	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1389	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1390	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1391	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1392	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1393	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1394	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1395	ECJ2XB1E104K	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1396	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1397	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1398	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1399	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1400	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1401	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1402	EEVHB0J101P	E 100UF, 6.3V	
C1403	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1404	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1405	EEVHB0J101P	E 100UF, 6.3V	
C1406	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1407	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1408	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1409	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1410	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1411	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1412	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1413	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1414	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1415	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1416	EEVHB0J101P	E 100UF, 6.3V	
C1417	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1418	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1419	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1420	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1421	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1422	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1423	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1424	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1425	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1426	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1427	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1428	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1429	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1430	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1431	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1432	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1433	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1434	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1435	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1436	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1437	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1438	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1439	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1440	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1441	ECJ2XC1H101J	C 100PF, J, 50V	
C1442	ECJ2XC1H101J	C 100PF, J, 50V	
C1443	ECJ2XC1H101J	C 100PF, J, 50V	
C1444	ECJ2XC1H101J	C 100PF, J, 50V	
C1445	ECJ2XC1H101J	C 100PF, J, 50V	
C1446	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1472	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1473	EEVHB1C470P	E 47UF, 16V	
C1474	ECJ2XF1C105Z	C 1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1475	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1600	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1601	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1602	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1603	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1604	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1605	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1606	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1607	EEVHB0J101P	E 100UF, 6.3V	
C1608	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1609	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1610	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1611	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1612	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1613	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1614	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1615	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1616	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1617	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1618	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1619	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1620	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1621	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1622	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1623	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1624	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1625	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1626	EEVHB0J101P	E 100UF, 6.3V	
C1627	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1628	ECJ1XC1H101J	C 100PF, J, 50V	
C1629	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1630	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1631	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1632	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1633	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1634	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1635	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1636	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1637	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1638	EEVHB1A330	E 33UF, 10V	
C1639	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1640	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1641	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1642	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1643	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1644	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1645	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1646	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1647	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1648	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1649	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1650	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1651	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1652	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1653	**ECJ2XF1C225Z**	**C 2.2UF, Z, 16V**	
C1654	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1655	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1656	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1657	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1658	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1659	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1660	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1661	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1662	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1663	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1664	**EEVHB0J470**	**E 47UF, 6.3V**	
C1665	**EEVHB0J470**	**E 47UF, 6.3V**	
C1666	**EEVHB0J470**	**E 47UF, 6.3V**	
C1667	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1668	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1669	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1670	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1671	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1672	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1673	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1674	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1675	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1676	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1677	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1678	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1679	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1680	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1681	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1682	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1683	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1684	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1685	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1686	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1687	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1688	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1689	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1690	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1691	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1692	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1693	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1694	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1695	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1696	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1697	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1698	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1699	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1700	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1701	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1702	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1703	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1704	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1705	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	
C1706	**ECJ1XF1E104Z**	**C 0.1UF, Z, 25V**	

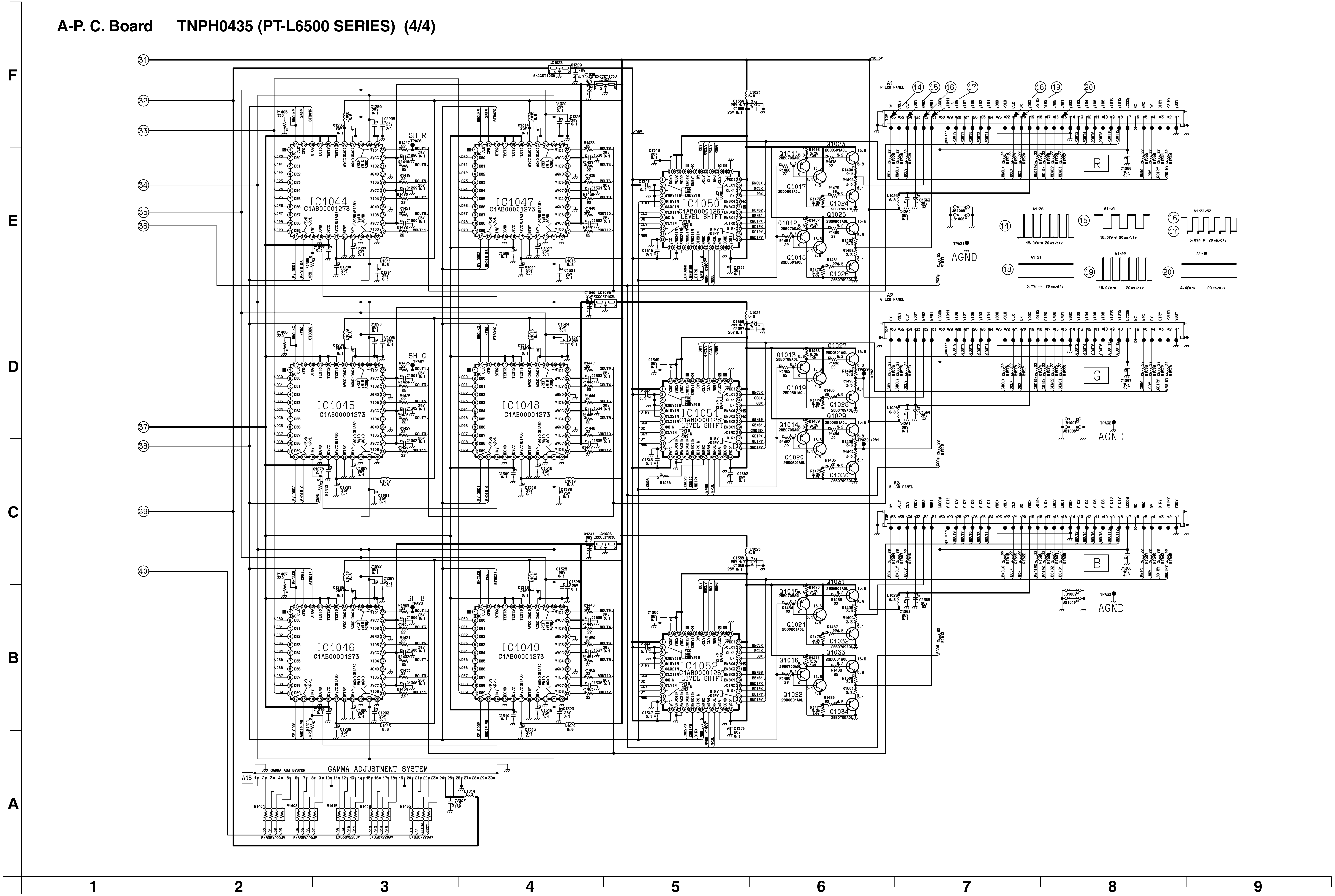
Ref. No.	Part No.	Part Name & Description	Remarks
C1707	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1708	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1709	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1710	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1711	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1712	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1713	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1714	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1715	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1716	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1717	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1718	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1719	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1720	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1721	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1722	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1723	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1724	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1725	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1726	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1727	EEVHB1E4R7	E 4.7UF, 25V	
C1728	EEVHB1E4R7	E 4.7UF, 25V	
C1729	EEVHB1E4R7	E 4.7UF, 25V	
C1730	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1731	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1732	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1733	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1734	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1735	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1736	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1737	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1738	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1739	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1740	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1741	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1742	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1743	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1744	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1745	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1746	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1747	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1748	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1749	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1750	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1751	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1752	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1753	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1754	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1755	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1756	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1757	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1758	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1759	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1760	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1761	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1762	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1763	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1764	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1765	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1766	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1767	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1768	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1769	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1770	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1771	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1772	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1773	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1774	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1775	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1776	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1777	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1778	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1779	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1780	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1781	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1782	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1783	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1784	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1785	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1786	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1787	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1788	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1789	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1790	EEVHB1E4R7	E 4.7UF, 25V	
C1791	EEVHB1E4R7	E 4.7UF, 25V	
C1792	EEVHB1E4R7	E 4.7UF, 25V	
C1793	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1794	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1795	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1796	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1797	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1798	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1799	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1800	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1801	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1802	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1803	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1804	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1805	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1806	EEVHB1E4R7	E 4.7UF, 25V	
C1807	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1808	EEVHB1E4R7	E 4.7UF, 25V	
C1809	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1810	EEVHB1E4R7	E 4.7UF, 25V	
C1811	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1812	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1813	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1814	ECJ2XF1H104Z	C 0.1UF, Z, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1815	EEVHB1E330	E 33UF, 25V	
C1816	EEVHB1E330	E 33UF, 25V	
C1817	EEVHB1E330	E 33UF, 25V	
C1818	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1819	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1820	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1821	EEVHB1C470P	E 47UF, 16V	
C1822	EEVHB1C470P	E 47UF, 16V	
C1823	EEVHB1C470P	E 47UF, 16V	
C1826	EEVHB1C470P	E 47UF, 16V	
C1827	EEVHB1C470P	E 47UF, 16V	
C1828	EEVHB1C470P	E 47UF, 16V	
C1829	EEVHB1C470P	E 47UF, 16V	
C1833	ECJ2XF1C104Z	C 0.1UD, Z, 16V	
C1834	EEVHB0J470	E 47UF, 6.3V	
C1835	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
		[OTHERS]	
A1	K1MN45B00003	45P CONNECTOR	
A2	K1MN45B00003	45P CONNECTOR	
A3	K1MN45B00003	45P CONNECTOR	
A4	K1KAA0A00088	100P CONNECTOR	
A5	K1KA80A00080	80P CONNECTOR	
A6	K1KB05B00019	5P CONNECTOR	
A7	TJSF43706	6P CONNECTOR	
A8	TJSF12410	10P CONNECTOR	
A9	TJSF11906	6P CONNECTOR	
A10	TJSF43711	11P CONNECTOR	
A11	K1KA02B00051	2P CONNECTOR	
A12	K1KA02B00051	2P CONNECTOR	
A13	TJSF43708	CONNECTOR	
A14	K1KA07A00132	7P CONNECTOR	
A15	TJSF43709	CONNECTOR	
A16	K1KA30A00106	30P CONNECTOR	
A18	K1KA02B00051	2P CONNECTOR	
A22	TJSF43704	4P CONNECTOR	
IC1032S	K3E020M00006	I.C SOCKET	
IC1323S	K3E020M00006	I.C SOCKET	
JS1000	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1001	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1002	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1003	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1004	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1005	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1600	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1601	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1602	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1603	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1604	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1605	ERJ6GEY0R00	M 0 OHM,J,1/10W	
X1002	TSSA115	CRYSTAL OSCILATOR	
X1301	H0J983400001	CRYSTAL	
X1302	H1A6505B0003	CRYSTAL	

Ref. No.	Part No.	Part Name & Description	Remarks
X1303	H1A9005B0003	CRYSTAL	
X1304	H1A5005B0010	CRYSTAL	
X1305	H1A6105B0001	CRYSTAL	
X1306	TSSA124	CRYSTAL	

A-P. C. Board TNPH0435 (PT-L6500 SERIES) (4/4)



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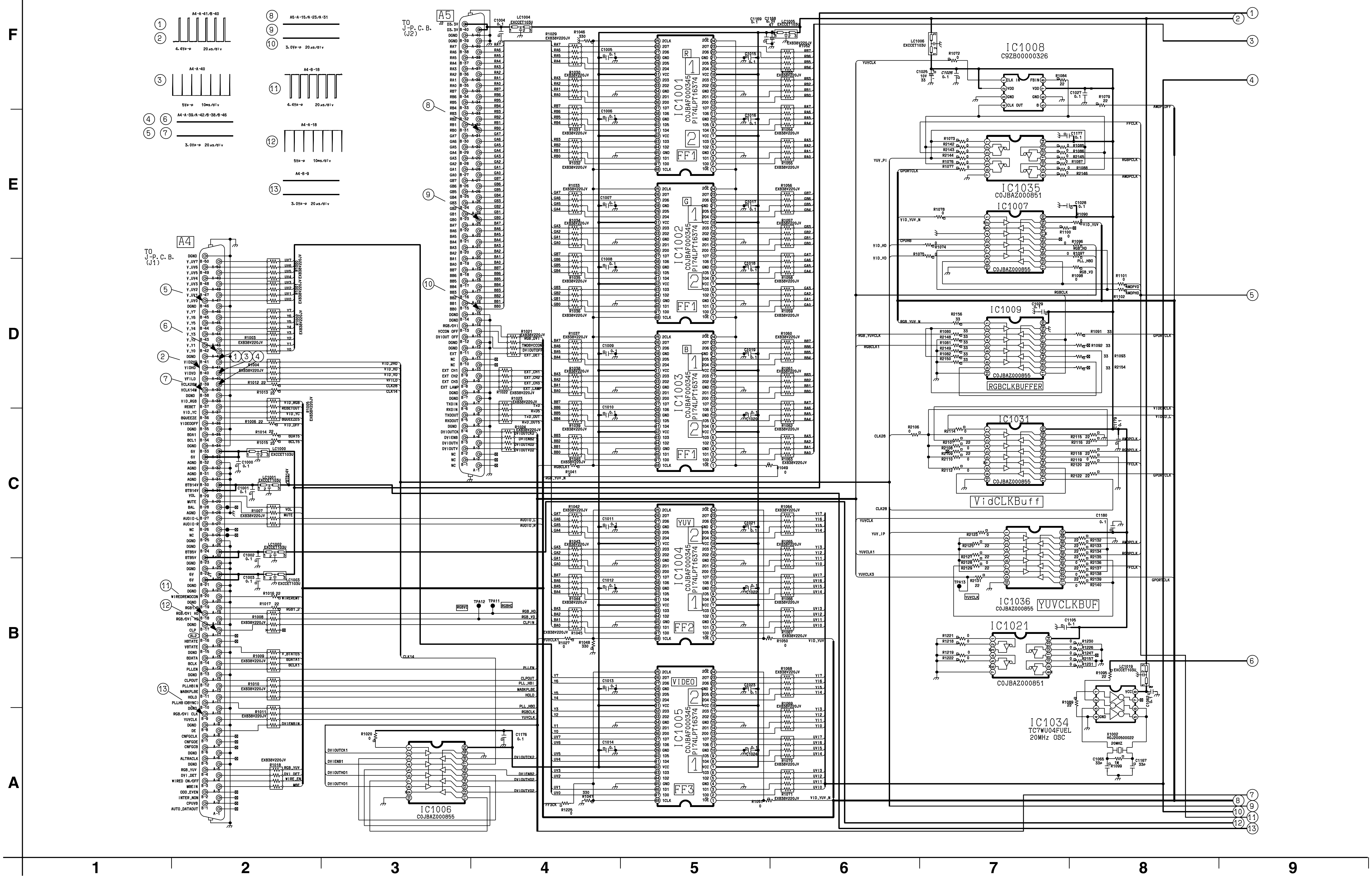
IC1044
C1AB00001273
IC1045
C1AB00001273
IC1046
C1AB00001273
IC1047
C1AB00001273
IC1048
C1AB00001273
IC1049
C1AB00001273
IC1050
C1AB00001267
LEVEL SHIFT
IC1051
C1AB00001267
LEVEL SHIFT
IC1052
C1AB00001267
LEVEL SHIFT
SH R
SH G
SH B
A1
R LCD PANEL
A2
G LCD PANEL
A3
B LCD PANEL
R
G
B
AGND
TPA31
TPA32
TPA33
15.5V
25V
Q1011
Q1012
Q1013
Q1014
Q1015
Q1016
Q1017
Q1018
Q1019
Q1020
Q1021
Q1022
Q1023
Q1024
Q1025
Q1026
Q1027
Q1028
Q1029
Q1030
Q1031
Q1032
Q1033
Q1034
2SD0601A0L
2SB0709A0L
14
A1-36
15.0Vp-p 20 µs/div
15
A1-34
15.0Vp-p 20 µs/div
16
17
A1-31/32
5.0Vp-p 20 µs/div
18
A1-21
0.7Vp-p 20 µs/div
19
A1-22
15.0Vp-p 20 µs/div
20
A1-15
4.4Vp-p 20 µs/div
A16
GAMMA ADJ SYSTEM
GAMMA ADJUSTMENT SYSTEM
R1404
R1408
R1415
R1416
R1435
EXB38V220JV
L1014
C1307
LC1023
LC1024
LC1025
LC1026
EXCCET103U
L1021
L1022
L1023
L1024
L1025
L1026

A-P. C. Board TNPH0434 (PT-L6600 SERIES) (1/8)


F
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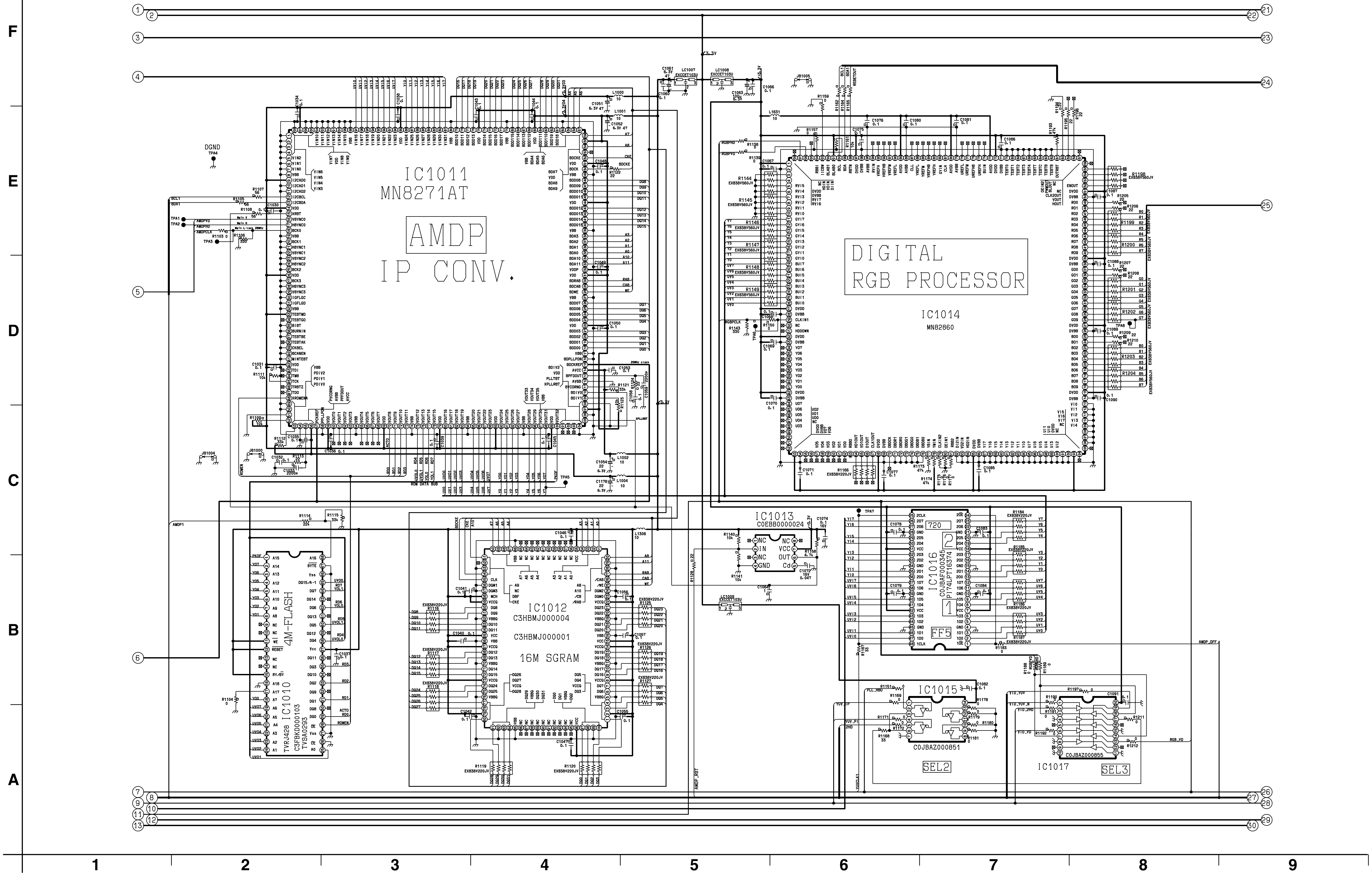
9
① ② A4-A-41/B-40 4.4Vp-p 20µs/div
③ A4-A-40 5Vp-p 10ms/div
④ ⑤ ⑥ ⑦ A4-A-39/A-42/B-38/B-46 3.0Vp-p 20µs/div
⑧ ⑨ ⑩ A5-A-15/A-23/A-31 3.0Vp-p 20µs/div
⑪ A4-B-18 4.4Vp-p 20µs/div
⑫ A4-A-18 5Vp-p 10ms/div
⑬ A4-B-9 3.0Vp-p 20µs/div
A4
TO J-P.C.B. (J1)
A5
TO J-P.C.B. (J2)
IC1001 C0JBAF000345 PI74LPT16374 R FF1
IC1002 C0JBAF000345 PI74LPT16374 G FF1
IC1003 C0JBAF000345 PI74LPT16374 B FF1
IC1004 C0JBAF000345 PI74LPT16374 YUV FF2
IC1005 C0JBAF000345 PI74LPT16374 VIDEO FF3
IC1006 C0JBAZ000855
IC1008 C9ZB00000326
IC1035 C0JBAZ000851
IC1007 C0JBAZ000855
IC1009 C0JBAZ000855 RGBCLKBUFFER
IC1031 C0JBAZ000855 VidCLKBuff
IC1036 C0JBAZ000855 YUVCLKBUF
IC1021 C0JBAZ000851
IC1034 TC7WU04FUEL 20MHz OSC
X1002 H0J200500022 20MHZ
LC1000 LC1001 LC1002 LC1003 LC1004 LC1005 LC1006 LC1019 EXCCET103U
TPA11 TPA12 TPA13
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

A-P. C. Board TNPH0434 (PT-L6600 SERIES) (2/8)


IC1011
MN8271AT
AMDP
IP CONV.
DIGITAL
RGB PROCESSOR
IC1014
MN82860
IC1010
4M-FLASH
C3FBKD000103
TVRJ428
TVSA0293
IC1012
C3HBMJ000004
C3HBMJ000001
16M SGRAM
IC1013
C0EBB0000024
IC1016
C0JBAF000345
PI74LPT16374
FF5
IC1015
C0JBAZ000851
SEL2
IC1017
C0JBAZ000855
SEL3
DGND
TPA1
TPA2
TPA3
TPA4
TPA5
TPA6
TPA7
TPA8
AMDP1
AMDP_OFF
RGB_VD
3.3V
F
E
D
C
B
A
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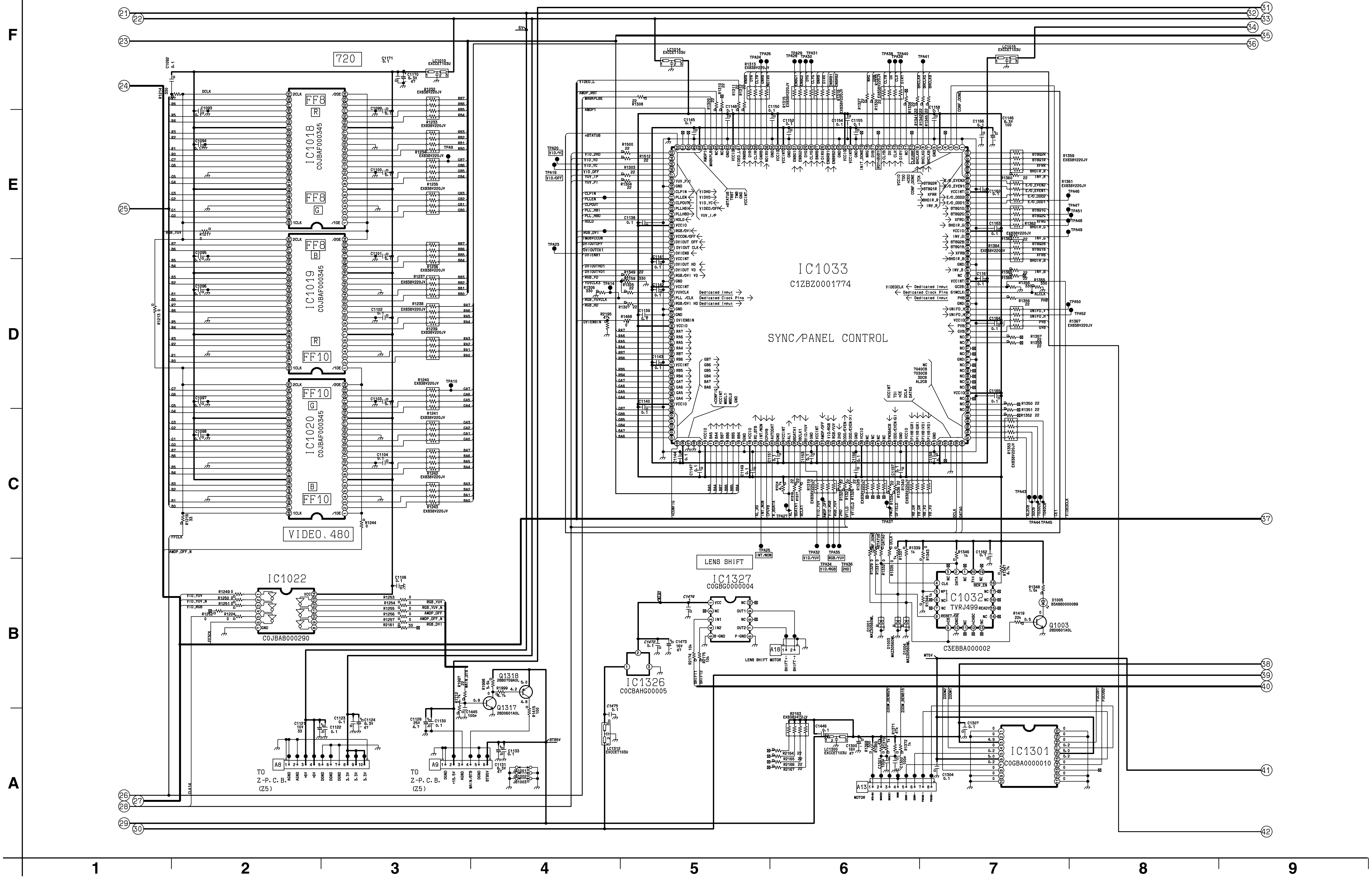
9

A-P. C. Board TNPH0434 (PT-L6600 SERIES) (3/8)



F
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C
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A
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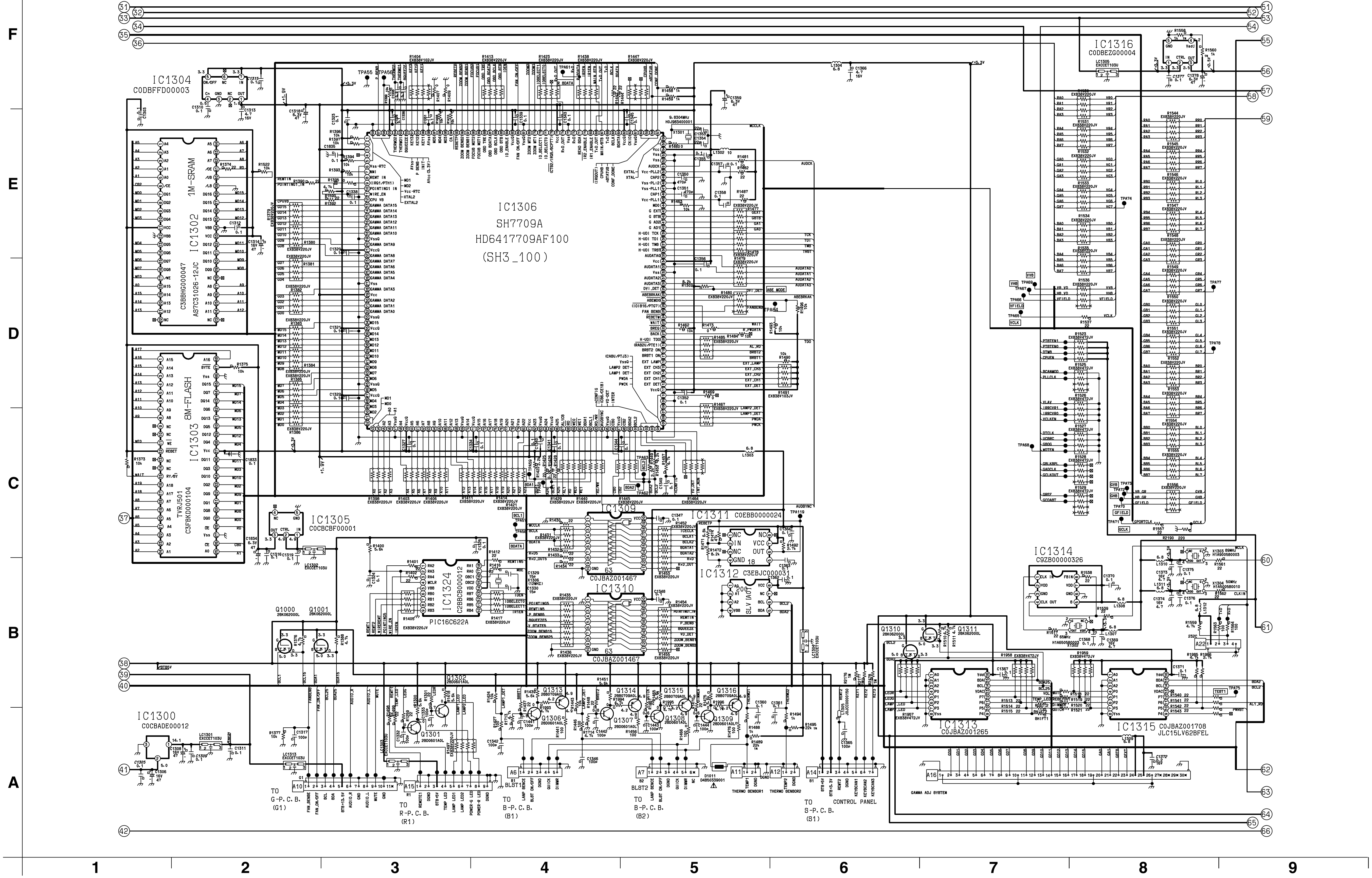
720
IC1018
C0JBAF000345
FF8
IC1019
C0JBAF000345
FF10
IC1020
C0JBAF000345
VIDEO、480
IC1022
C0JBAB000290
IC1033
C1ZBZ0001774
SYNC/PANEL CONTROL
LC1014
EXCCET103U
LC1010
EXCCET103U
LC1015
EXCCET103U
LENS SHIFT
IC1327
C0GBG0000004
LENS SHIFT MOTOR
IC1326
C0CBAHG00005
IC1032
TVRJ499
C3EBBA000002
Q1003
2SD0601A0L
D1005
B3AB80000089
Q1318
2SB0709A0L
Q1317
2SD0601A0L
IC1301
C0GBA0000010
A8
A9
A13
A18
MOTOR
TO
Z-P.C.B.
(Z5)
LC1312
EXCCET103U
LC1300
EXCCET103U
TPA25
INT/MON
TPA32
VID/YUV
TPA34
VID/RGB
TPA35
RGB/YUV
TPA36
2HD
TPA20
VID/YC
TPA19
VID/OFF

A-P. C. Board   TNPH0434 (PT-L6600 SERIES)   (4/8)


F
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IC1304
C0DBFFD00003
IC1302
C3BBHG000047
AS7C31026-12JC
1M-SRAM
IC1303
C3FBKD000104
TVRJ501
8M-FLASH
IC1306
SH7709A
HD6417709AF100
(SH3_100)
IC1305
C0CBCBF00001
IC1324
C2BBC0000012
PIC16C622A
IC1309
C0JBAZ001467
IC1310
C0JBAZ001467
IC1311
C0EBB0000024
IC1312
C3EBJC000031
IC1313
C0JBAZ001265
IC1314
C9ZB00000326
IC1315
C0JBAZ00170B
JLC15LV62BFEL
IC1316
C0DBEZG00004
IC1300
C0CBADE00012
Q1000
Q1001
Q1302
Q1301
Q1313
Q1306
Q1314
Q1307
Q1315
Q1308
Q1316
Q1309
Q1310
Q1311
TO G-P.C.B. (G1)
TO R-P.C.B. (R1)
TO B-P.C.B. (B1)
TO B-P.C.B. (B2)
TO S-P.C.B. (S1)
CONTROL PANEL
GAMMA ADJ SYSTEM
THERMO SENSOR1
THERMO SENSOR2
A6
A7
A10
A11
A12
A14
A15
A16
A22
D1011
D4B503390001
(31)
(32)
(33)
(34)
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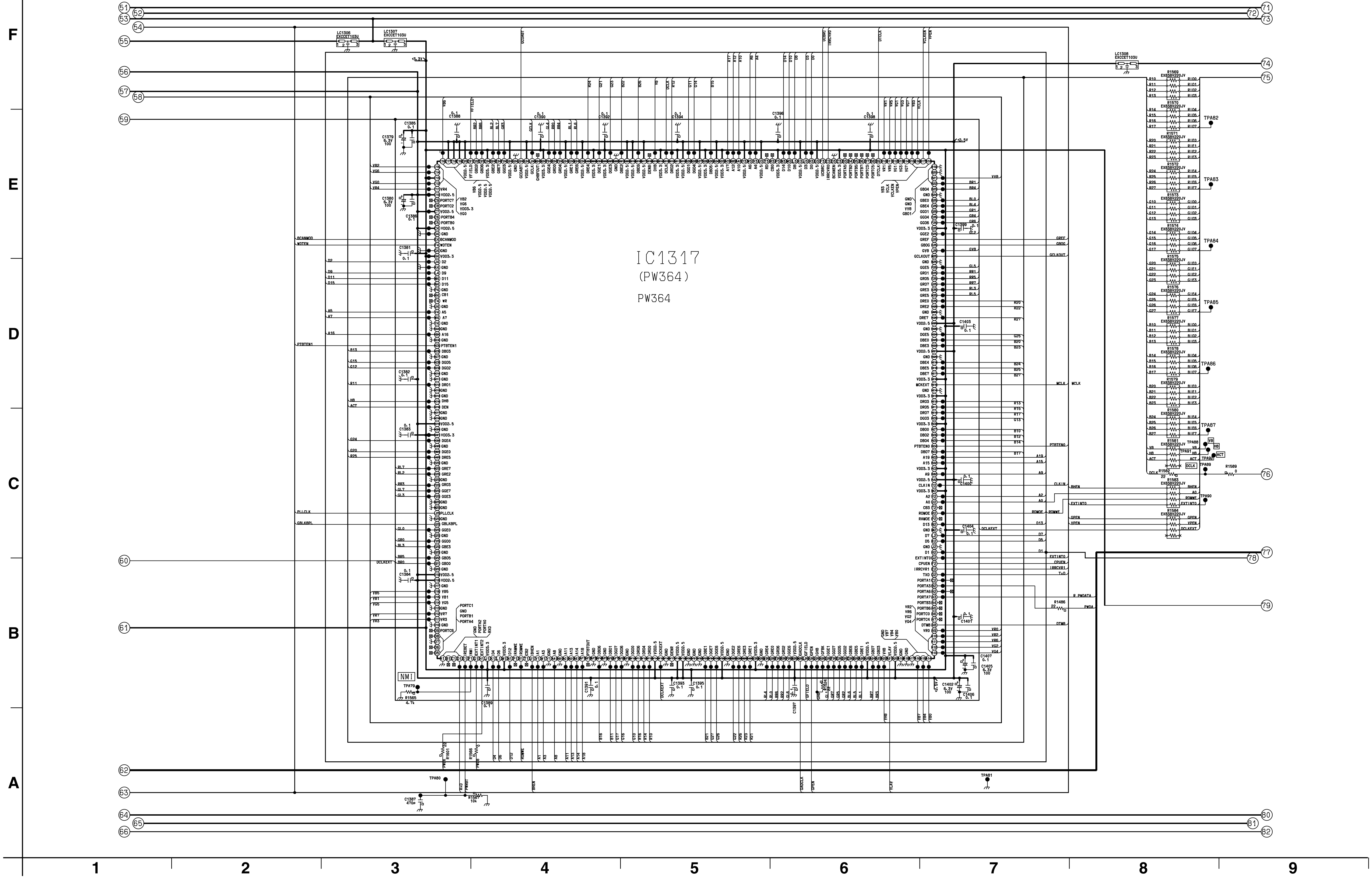
A-P. C. Board TNPH0434 (PT-L6600 SERIES) (5/8)



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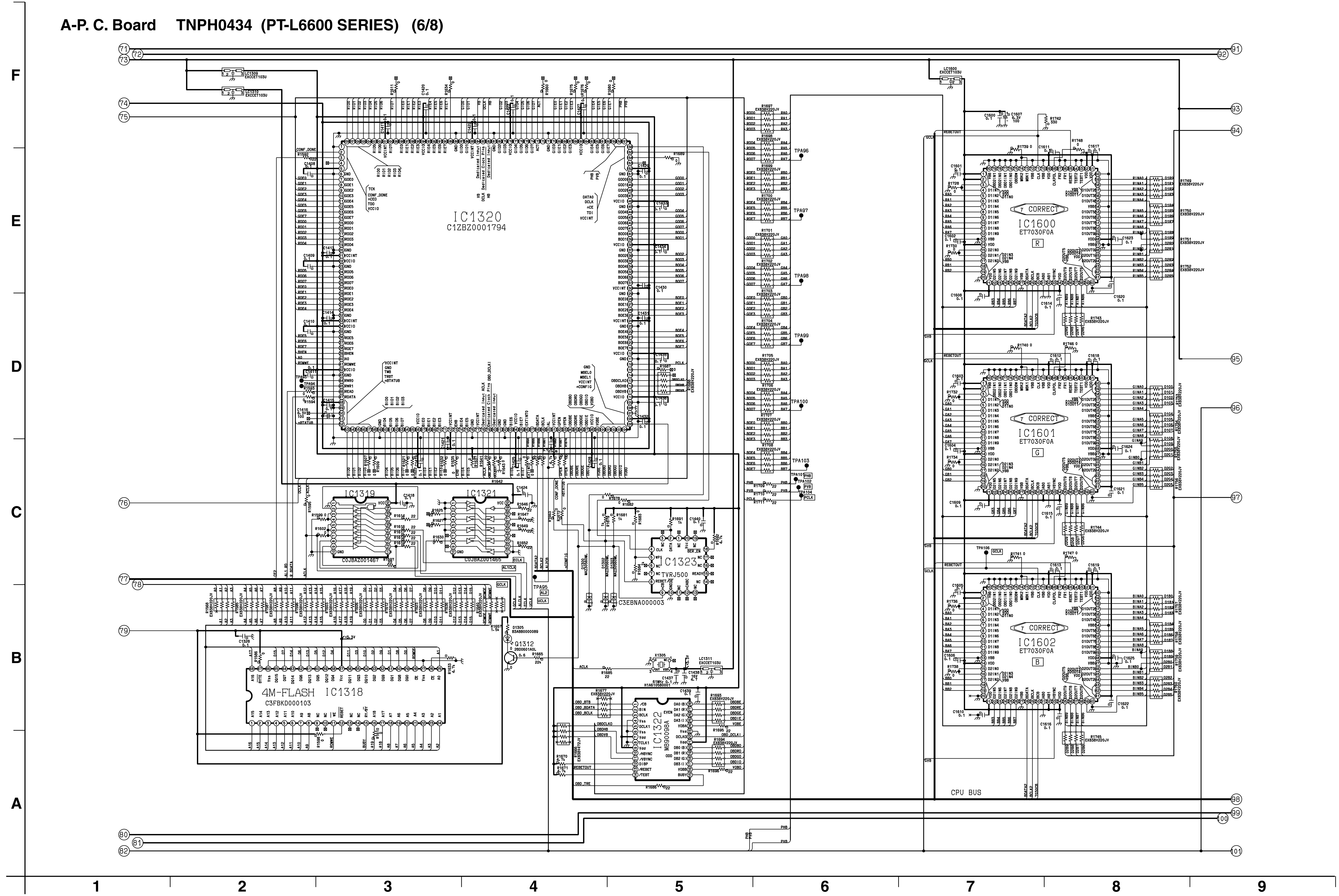
IC1317
(PW364)
PW364
LC1306 EXCCET103U
LC1307 EXCCET103U
LC1308 EXCCET103U
NMI
TPA79
TPA80
TPA81
TPA82
TPA83
TPA84
TPA85
TPA86
TPA87
TPA90
R1565 4.7k
C1387 470p
R1567 10k
R1486 22
R1589 0

A-P. C. Board TNPH0434 (PT-L6600 SERIES) (6/8)


IC1320
C1ZBZ0001794
IC1319
C0JBAZ001467
IC1321
C0JBAZ001465
IC1323
TVRJ500
C3EBNA000003
4M-FLASH IC1318
C3FBKD000103
Q1312
IC1322
MB90098A
IC1600
ET7030F0A
R
IC1601
ET7030F0A
G
IC1602
ET7030F0A
B
CORRECT
CPU BUS
LC1309
LC1310
LC1600
LC1311
EXCCET103U
X1305
D1305
TPA95
TPA96
TPA97
TPA98
TPA99
TPA100
TPA103
TPA106
PHB
PVB
PCLK
GCLK
ECLK
UCLK
AL2
AL1CLK
F
E
D
C
B
A
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8
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71
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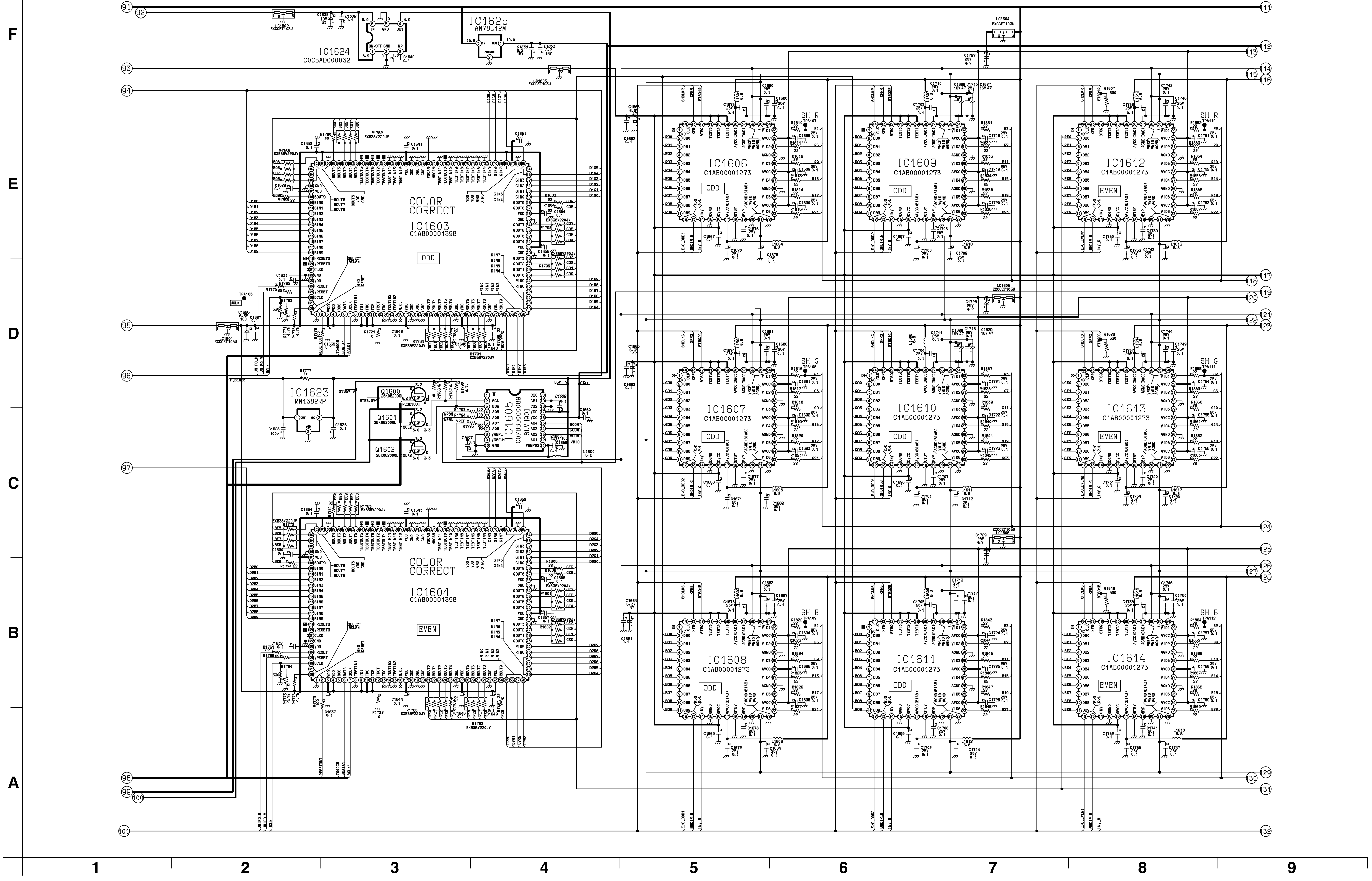
A-P. C. Board TNPH0434 (PT-L6600 SERIES) (7/8)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100
101
IC1624
C0CBADC00032
IC1625
AN78L12M
LC1602
EXCCET103U
LC1603
EXCCET103U
LC1601
EXCCET103U
LC1604
EXCCET103U
LC1605
EXCCET103U
LC1606
EXCCET103U
COLOR
CORRECT
IC1603
C1AB00001398
ODD
COLOR
CORRECT
IC1604
C1AB00001398
EVEN
IC1623
MN1382RP
Q1600
Q1601
Q1602
IC1605
UCLK
TPA105
IC1606
C1AB00001273
ODD
SH R
IC1609
C1AB00001273
ODD
SH R
IC1612
C1AB00001273
EVEN
SH R
IC1607
C1AB00001273
ODD
SH G
IC1610
C1AB00001273
ODD
SH G
IC1613
C1AB00001273
EVEN
SH G
IC1608
C1AB00001273
ODD
SH B
IC1611
C1AB00001273
ODD
SH B
IC1614
C1AB00001273
EVEN
SH B
111
112
113
114
115
116
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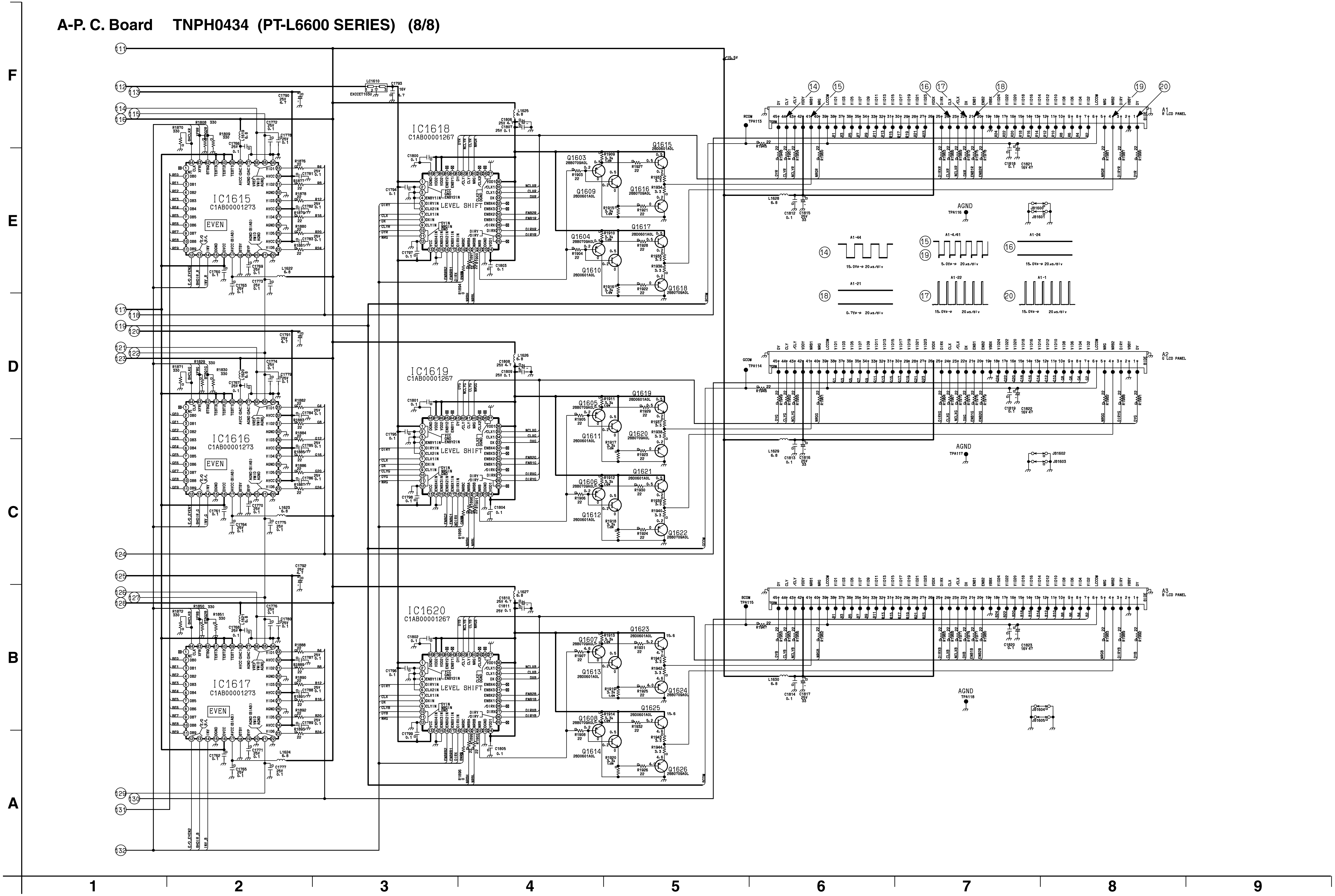
A-P. C. Board TNPH0434 (PT-L6600 SERIES) (8/8)



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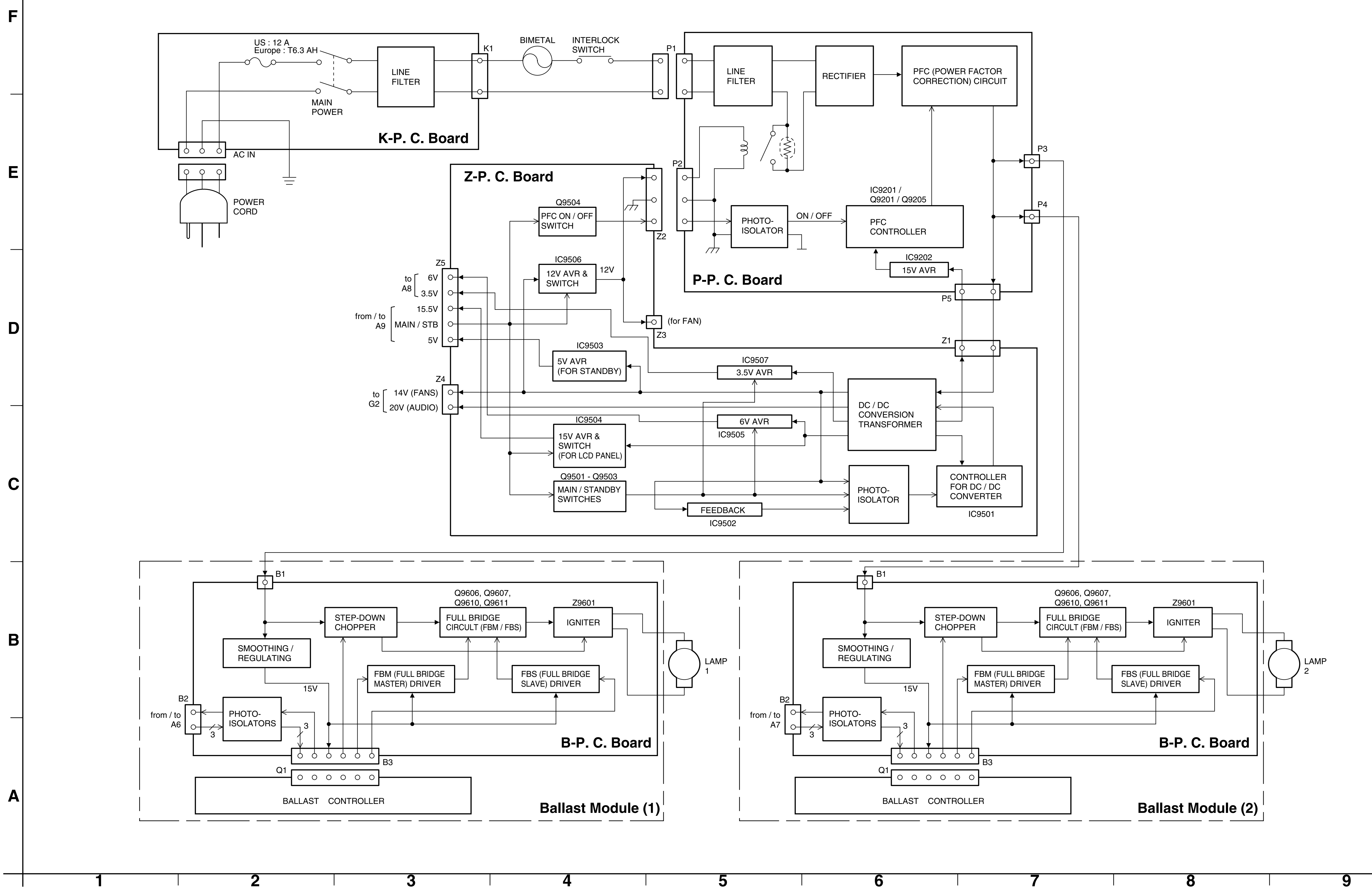
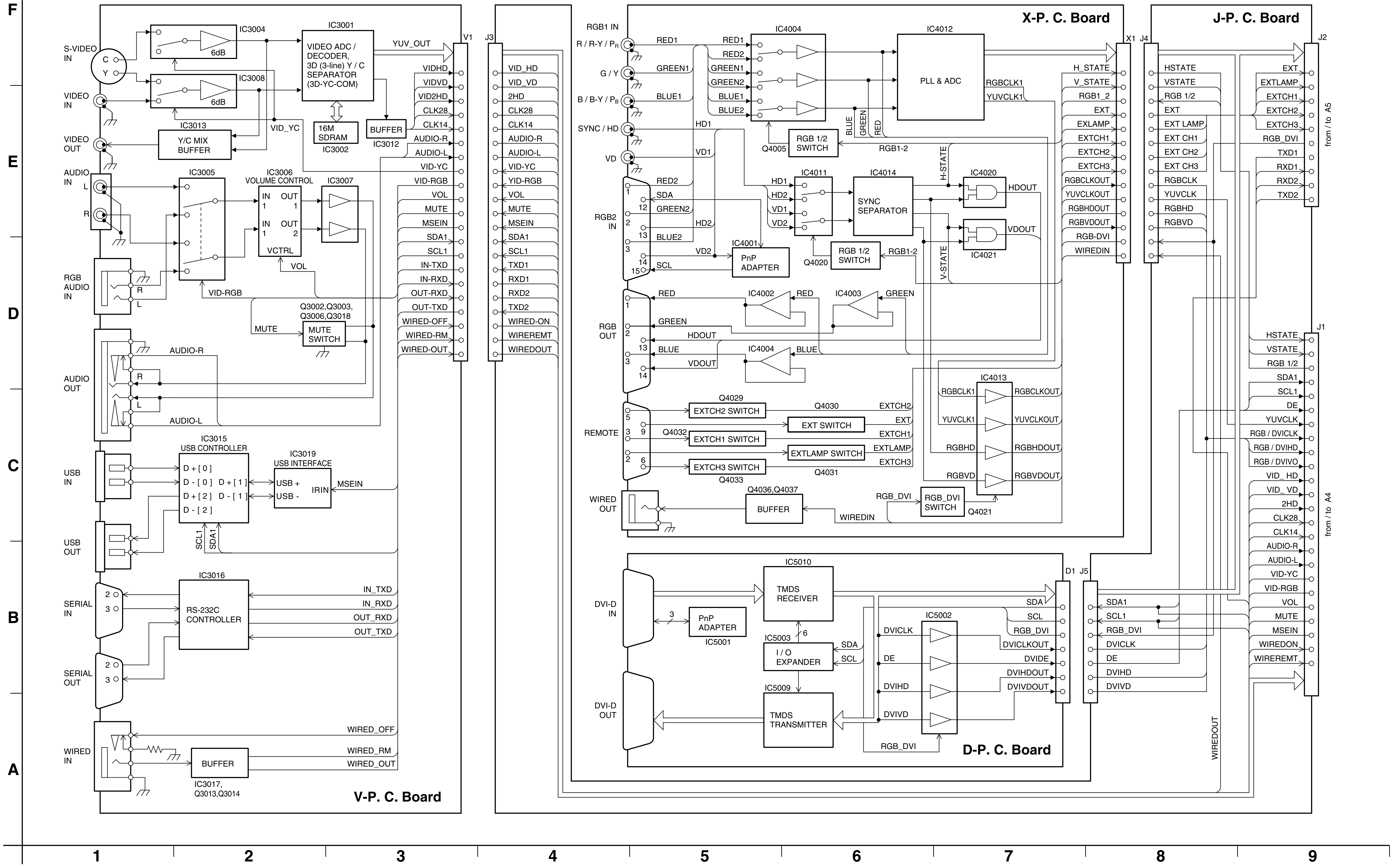
IC1615
C1AB00001273
EVEN
IC1616
C1AB00001273
EVEN
IC1617
C1AB00001273
EVEN
IC1618
C1AB00001267
LEVEL SHIFT
IC1619
C1AB00001267
LEVEL SHIFT
IC1620
C1AB00001267
LEVEL SHIFT
Q1603
Q1604
Q1605
Q1606
Q1607
Q1608
Q1609
Q1610
Q1611
Q1612
Q1613
Q1614
Q1615
Q1616
Q1617
Q1618
Q1619
Q1620
Q1621
Q1622
Q1623
Q1624
Q1625
Q1626
LC1610
EXCCET103U
15.5V
RCOM
TPA113
GCOM
TPA114
BCOM
TPA115
A1
R LCD PANEL
A2
G LCD PANEL
A3
B LCD PANEL
AGND
TPA116
AGND
TPA117
AGND
TPA118
JS1600
JS1601
JS1602
JS1603
JS1604
JS1605
L1626
L1627
L1628
L1629
L1630
A1-44
15.0Vp-p 20 μs/div
A1-4/41
5.0Vp-p 20 μs/div
A1-24
15.0Vp-p 20 μs/div
A1-21
0.7Vp-p 20 μs/div
A1-22
15.0Vp-p 20 μs/div
A1-1
15.0Vp-p 20 μs/div
⑭
⑮
⑯
⑰
⑱
⑲
⑳
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132

Power Supply



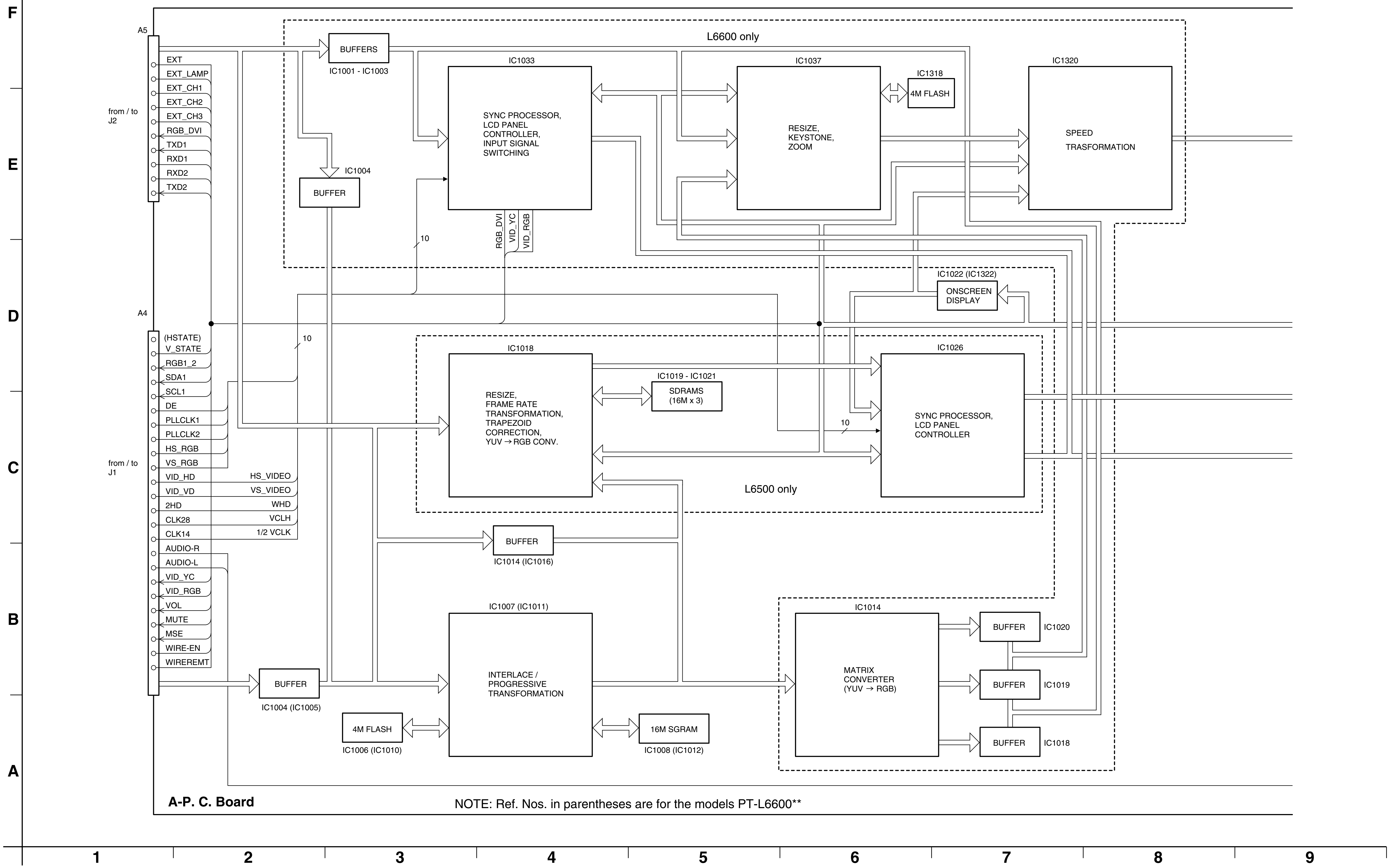
US : 12 A
Europe : T6.3 AH
LINE FILTER
MAIN POWER
K1
K-P. C. Board
AC IN
POWER CORD
BIMETAL
INTERLOCK SWITCH
P1
LINE FILTER
RECTIFIER
PFC (POWER FACTOR CORRECTION) CIRCUIT
P2
P3
P4
IC9201 / Q9201 / Q9205
PHOTO-ISOLATOR
ON / OFF
PFC CONTROLLER
IC9202
15V AVR
P-P. C. Board
P5
Z-P. C. Board
Q9504
PFC ON / OFF SWITCH
Z2
IC9506
12V AVR & SWITCH
12V
Z5
to A8
6V
3.5V
15.5V
from / to A9
MAIN / STB
5V
(for FAN)
Z3
Z1
IC9503
5V AVR (FOR STANDBY)
IC9507
3.5V AVR
Z4
to G2
14V (FANS)
20V (AUDIO)
DC / DC CONVERSION TRANSFORMER
IC9504
15V AVR & SWITCH (FOR LCD PANEL)
6V AVR
IC9505
Q9501 - Q9503
MAIN / STANDBY SWITCHES
PHOTO-ISOLATOR
CONTROLLER FOR DC / DC CONVERTER
IC9501
FEEDBACK
IC9502
B1
Q9606, Q9607, Q9610, Q9611
Z9601
STEP-DOWN CHOPPER
FULL BRIDGE CIRCUIT (FBM / FBS)
IGNITER
SMOOTHING / REGULATING
LAMP 1
FBM (FULL BRIDGE MASTER) DRIVER
FBS (FULL BRIDGE SLAVE) DRIVER
15V
B2
from / to A6
PHOTO-ISOLATORS
3
3
B3
B-P. C. Board
Q1
BALLAST CONTROLLER
Ballast Module (1)
B1
Q9606, Q9607, Q9610, Q9611
Z9601
STEP-DOWN CHOPPER
FULL BRIDGE CIRCUIT (FBM / FBS)
IGNITER
SMOOTHING / REGULATING
LAMP 2
FBM (FULL BRIDGE MASTER) DRIVER
FBS (FULL BRIDGE SLAVE) DRIVER
15V
B2
from / to A7
PHOTO-ISOLATORS
3
3
B3
B-P. C. Board
Q1
BALLAST CONTROLLER
Ballast Module (2)
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

Signal Processing(1/3)



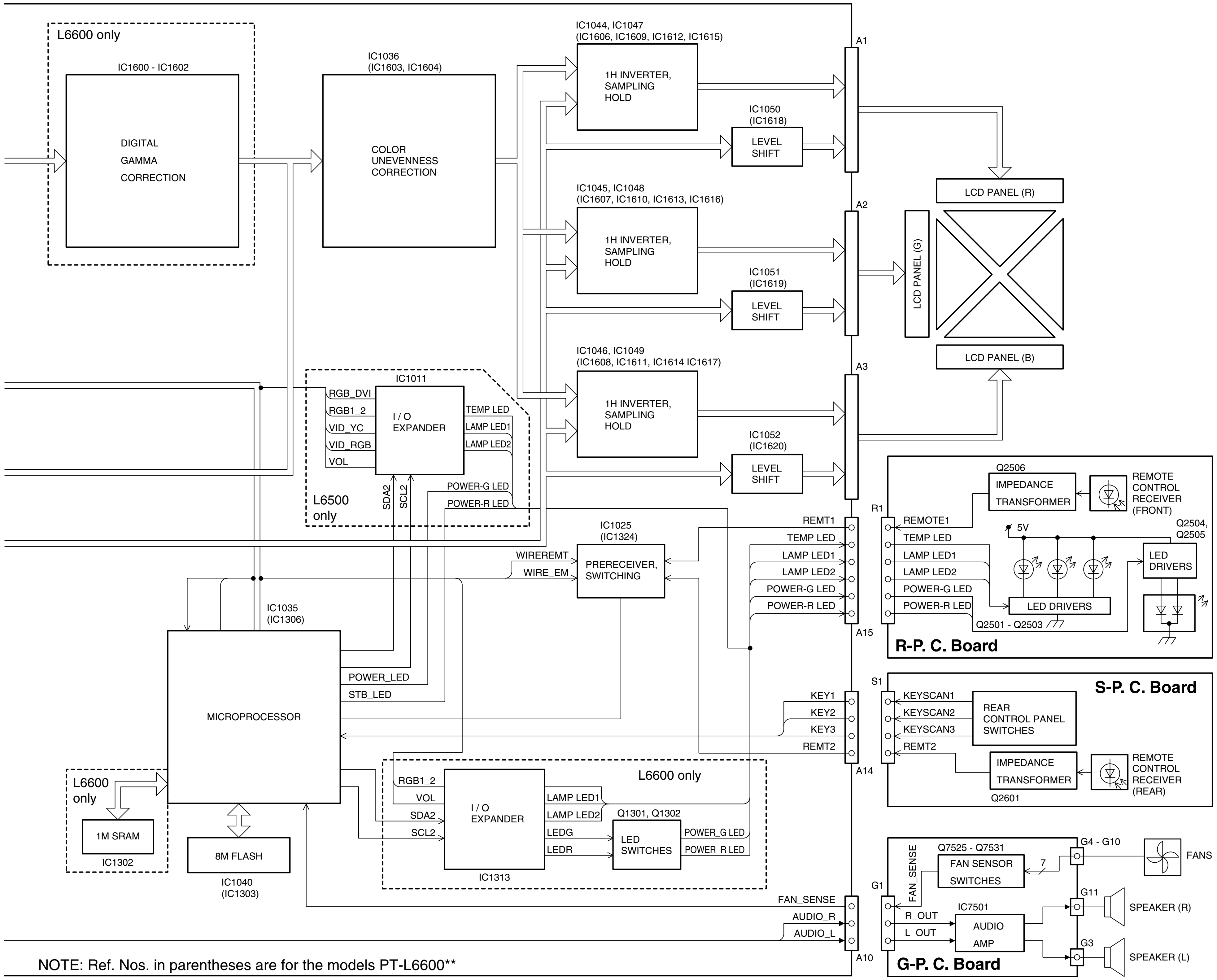
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
V-P. C. Board
X-P. C. Board
J-P. C. Board
D-P. C. Board
S-VIDEO IN
C
Y
VIDEO IN
VIDEO OUT
AUDIO IN
L
R
RGB AUDIO IN
AUDIO OUT
USB IN
USB OUT
SERIAL IN
SERIAL OUT
WIRED IN
IC3004
6dB
IC3008
IC3001
VIDEO ADC / DECODER, 3D (3-line) Y / C SEPARATOR (3D-YC-COM)
YUV_OUT
16M SDRAM
IC3002
BUFFER
IC3012
IC3013
Y/C MIX BUFFER
VID_YC
IC3005
IC3006
VOLUME CONTROL
IN 1
OUT 1
IN 1
OUT 2
VCTRL
IC3007
VOL
VID-RGB
Q3002,Q3003, Q3006,Q3018
MUTE SWITCH
MUTE
AUDIO-R
AUDIO-L
IC3015
USB CONTROLLER
D+[0]
D-[0]
D+[1]
D+[2]
D-[1]
D-[2]
SCL1
SDA1
IC3019
USB INTERFACE
USB +
USB -
IRIN
MSEIN
IC3016
RS-232C CONTROLLER
IN_TXD
IN_RXD
OUT_RXD
OUT_TXD
WIRED_OFF
WIRED_RM
WIRED_OUT
BUFFER
IC3017, Q3013,Q3014
V1
VIDHD
VIDVD
VID2HD
CLK28
CLK14
AUDIO-R
AUDIO-L
VID-YC
VID-RGB
VOL
MUTE
MSEIN
SDA1
SCL1
IN-TXD
IN-RXD
OUT-RXD
OUT-TXD
WIRED-OFF
WIRED-RM
WIRED-OUT
J3
VID_HD
VID_VD
2HD
CLK28
CLK14
AUDIO-R
AUDIO-L
VID-YC
YID-RGB
VOL
MUTE
MSEIN
SDA1
SCL1
TXD1
RXD1
RXD2
TXD2
WIRED-ON
WIREREMT
WIREDOUT
RGB1 IN
R / R-Y / P_R
G / Y
B / B-Y / P_B
SYNC / HD
VD
RED1
GREEN1
BLUE1
IC4004
RED1
RED2
GREEN1
GREEN2
BLUE1
BLUE2
HD1
VD1
Q4005
RGB 1/2 SWITCH
BLUE
GREEN
RED
RGB1-2
IC4012
PLL & ADC
RGBCLK1
YUVCLK1
RGB2 IN
1
12
2
13
3
14
15
RED2
SDA
GREEN2
HD2
BLUE2
VD2
SCL
IC4001
PnP ADAPTER
IC4011
HD1
HD2
VD1
VD2
IC4014
SYNC SEPARATOR
Q4020
RGB 1/2 SWITCH
RGB1-2
H-STATE
V-STATE
IC4020
HDOUT
VDOUT
IC4021
RGB OUT
RED
GREEN
HDOUT
BLUE
VDOUT
IC4002
RED
IC4003
GREEN
IC4004
BLUE
IC4013
RGBCLK1
RGBCLKOUT
YUVCLK1
YUVCLKOUT
RGBHD
RGBHDOUT
RGBVD
RGBVDOUT
REMOTE
5
3
9
2
6
Q4029
EXTCH2 SWITCH
Q4030
EXTCH2
EXT SWITCH
EXT
Q4032
EXTCH1 SWITCH
EXTCH1
EXTLAMP SWITCH
EXTLAMP
EXTCH3 SWITCH
EXTCH3
Q4033
Q4031
WIRED OUT
Q4036,Q4037
BUFFER
WIREDIN
RGB_DVI
RGB_DVI SWITCH
Q4021
X1
H_STATE
V_STATE
RGB1_2
EXT
EXLAMP
EXTCH1
EXTCH2
EXTCH3
RGBCLKOUT
YUVCLKOUT
RGBHDOUT
RGBVDOUT
RGB-DVI
WIREDIN
J4
HSTATE
VSTATE
RGB 1/2
EXT
EXT LAMP
EXT CH1
EXT CH2
EXT CH3
RGBCLK
YUVCLK
RGBHD
RGBVD
J2
EXT
EXTLAMP
EXTCH1
EXTCH2
EXTCH3
RGB_DVI
TXD1
RXD1
RXD2
TXD2
from / to A5
J1
HSTATE
VSTATE
RGB 1/2
SDA1
SCL1
DE
YUVCLK
RGB / DVICLK
RGB / DVIHD
RGB / DVIVO
VID_ HD
VID_ VD
2HD
CLK28
CLK14
AUDIO-R
AUDIO-L
VID-YC
VID-RGB
VOL
MUTE
MSEIN
WIREDON
WIREREMT
from / to A4
WIREDOUT
DVI-D IN
DVI-D OUT
3
PnP ADAPTER
IC5001
IC5010
TMDS RECEIVER
6
IC5003
I / O EXPANDER
SDA
SCL
IC5009
TMDS TRANSMITTER
IC5002
DVICLK
DE
DVIHD
DVIVD
RGB_DVI
SDA
SCL
RGB_DVI
DVICLKOUT
DVIDE
DVIHDOUT
DVIVDOUT
D1
J5
SDA1
SCL1
RGB_DVI
DVICLK
DE
DVIHD
DVIVD

Signal Processing(2/3)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
A5
from / to
J2
EXT
EXT_LAMP
EXT_CH1
EXT_CH2
EXT_CH3
RGB_DVI
TXD1
RXD1
RXD2
TXD2
BUFFERS
IC1001 - IC1003
L6600 only
IC1033
SYNC PROCESSOR,
LCD PANEL
CONTROLLER,
INPUT SIGNAL
SWITCHING
IC1037
RESIZE,
KEYSTONE,
ZOOM
IC1318
4M FLASH
IC1320
SPEED
TRASFORMATION
IC1004
BUFFER
10
RGB_DVI
VID_YC
VID_RGB
IC1022 (IC1322)
ONSCREEN
DISPLAY
A4
(HSTATE)
V_STATE
RGB1_2
SDA1
SCL1
DE
PLLCLK1
PLLCLK2
HS_RGB
VS_RGB
VID_HD
VID_VD
2HD
CLK28
CLK14
AUDIO-R
AUDIO-L
VID_YC
VID_RGB
VOL
MUTE
MSE
WIRE-EN
WIREREMT
from / to
J1
10
HS_VIDEO
VS_VIDEO
WHD
VCLH
1/2 VCLK
IC1018
RESIZE,
FRAME RATE
TRANSFORMATION,
TRAPEZOID
CORRECTION,
YUV → RGB CONV.
IC1019 - IC1021
SDRAMS
(16M x 3)
IC1026
SYNC PROCESSOR,
LCD PANEL
CONTROLLER
10
L6500 only
BUFFER
IC1014 (IC1016)
IC1007 (IC1011)
INTERLACE /
PROGRESSIVE
TRANSFORMATION
BUFFER
IC1004 (IC1005)
4M FLASH
IC1006 (IC1010)
16M SGRAM
IC1008 (IC1012)
IC1014
MATRIX
CONVERTER
(YUV → RGB)
BUFFER
IC1020
BUFFER
IC1019
BUFFER
IC1018
A-P. C. Board

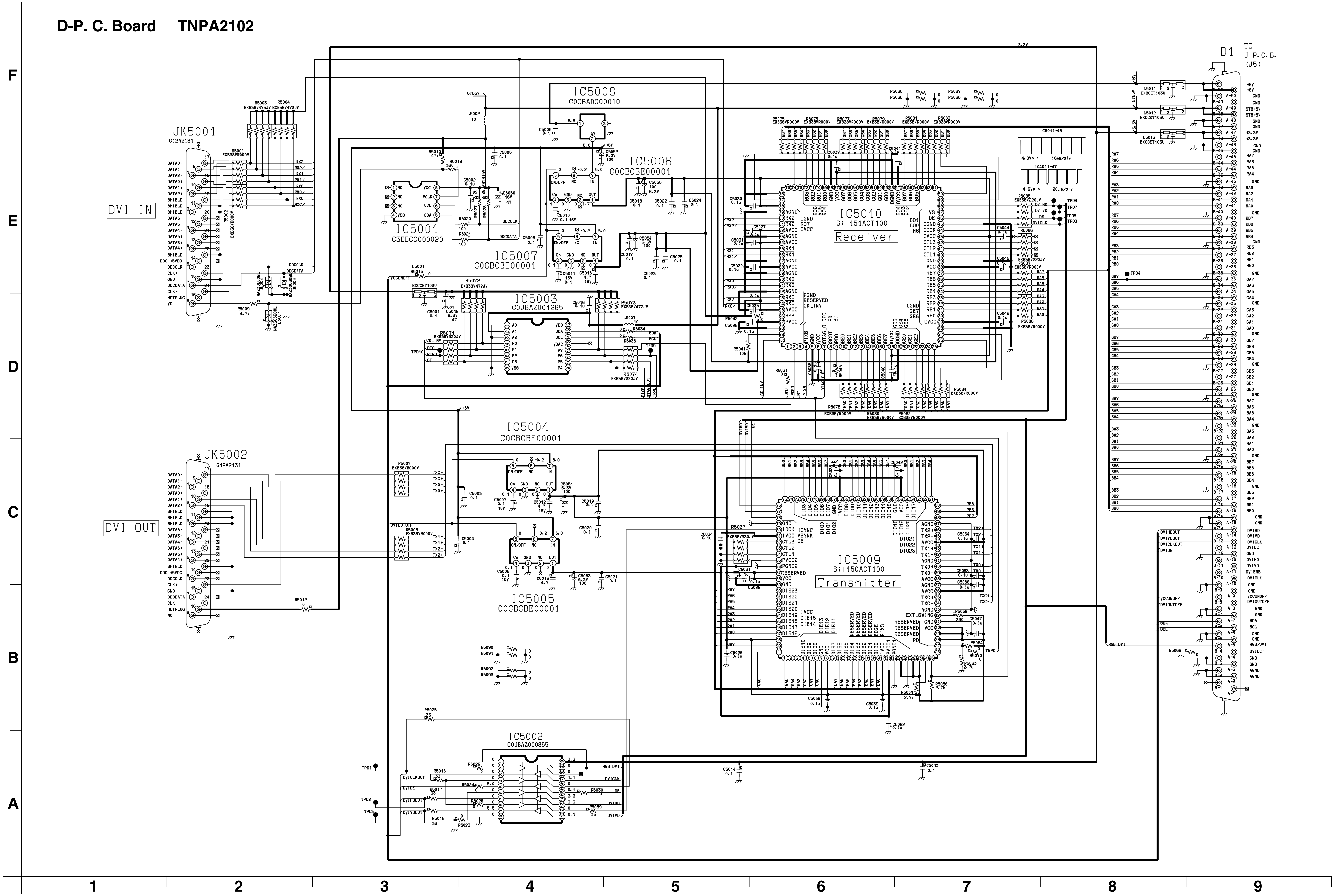
NOTE: Ref. Nos. in parentheses are for the models PT-L6600**

Signal Processing (3/3)


L6600 only
IC1600 - IC1602
DIGITAL
GAMMA
CORRECTION
IC1036
(IC1603, IC1604)
COLOR
UNEVENNESS
CORRECTION
IC1044, IC1047
(IC1606, IC1609, IC1612, IC1615)
1H INVERTER,
SAMPLING
HOLD
IC1050
(IC1618)
LEVEL
SHIFT
A1
IC1045, IC1048
(IC1607, IC1610, IC1613, IC1616)
1H INVERTER,
SAMPLING
HOLD
IC1051
(IC1619)
LEVEL
SHIFT
A2
IC1046, IC1049
(IC1608, IC1611, IC1614 IC1617)
1H INVERTER,
SAMPLING
HOLD
IC1052
(IC1620)
LEVEL
SHIFT
A3
LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
IC1011
RGB_DVI
RGB1_2
VID_YC
VID_RGB
VOL
I / O
EXPANDER
TEMP LED
LAMP LED1
LAMP LED2
POWER-G LED
POWER-R LED
SDA2
SCL2
L6500
only
IC1025
(IC1324)
WIREREMT
WIRE_EM
PRERECEIVER,
SWITCHING
REMT1
TEMP LED
LAMP LED1
LAMP LED2
POWER-G LED
POWER-R LED
A15
R1
Q2506
IMPEDANCE
TRANSFORMER
REMOTE
CONTROL
RECEIVER
(FRONT)
REMOTE1
TEMP LED
LAMP LED1
LAMP LED2
POWER-G LED
POWER-R LED
5V
Q2504,
Q2505
LED
DRIVERS
LED DRIVERS
Q2501 - Q2503
R-P. C. Board
IC1035
(IC1306)
MICROPROCESSOR
POWER_LED
STB_LED
KEY1
KEY2
KEY3
REMT2
A14
S1
KEYSCAN1
KEYSCAN2
KEYSCAN3
REMT2
REAR
CONTROL PANEL
SWITCHES
IMPEDANCE
TRANSFORMER
Q2601
REMOTE
CONTROL
RECEIVER
(REAR)
S-P. C. Board
L6600
only
1M SRAM
IC1302
8M FLASH
IC1040
(IC1303)
L6600 only
RGB1_2
VOL
SDA2
SCL2
I / O
EXPANDER
IC1313
LAMP LED1
LAMP LED2
LEDG
LEDR
Q1301, Q1302
LED
SWITCHES
POWER_G LED
POWER_R LED
FAN_SENSE
AUDIO_R
AUDIO_L
A10
G1
FAN_SENSE
Q7525 - Q7531
FAN SENSOR
SWITCHES
7
G4 - G10
FANS
R_OUT
L_OUT
IC7501
AUDIO
AMP
G11
SPEAKER (R)
G3
SPEAKER (L)
G-P. C. Board
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

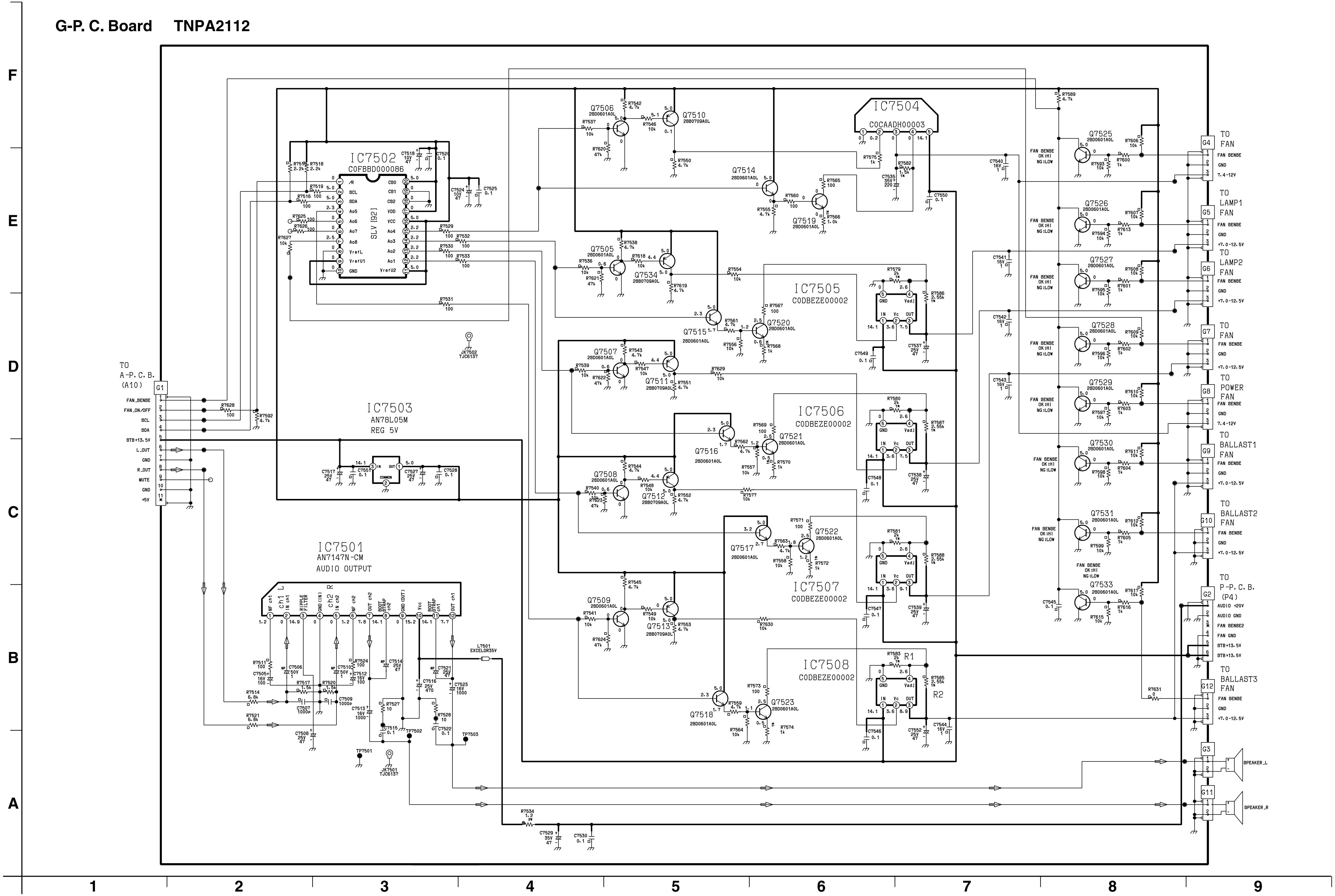
NOTE: Ref. Nos. in parentheses are for the models PT-L6600**

D-P. C. Board TNPA2102

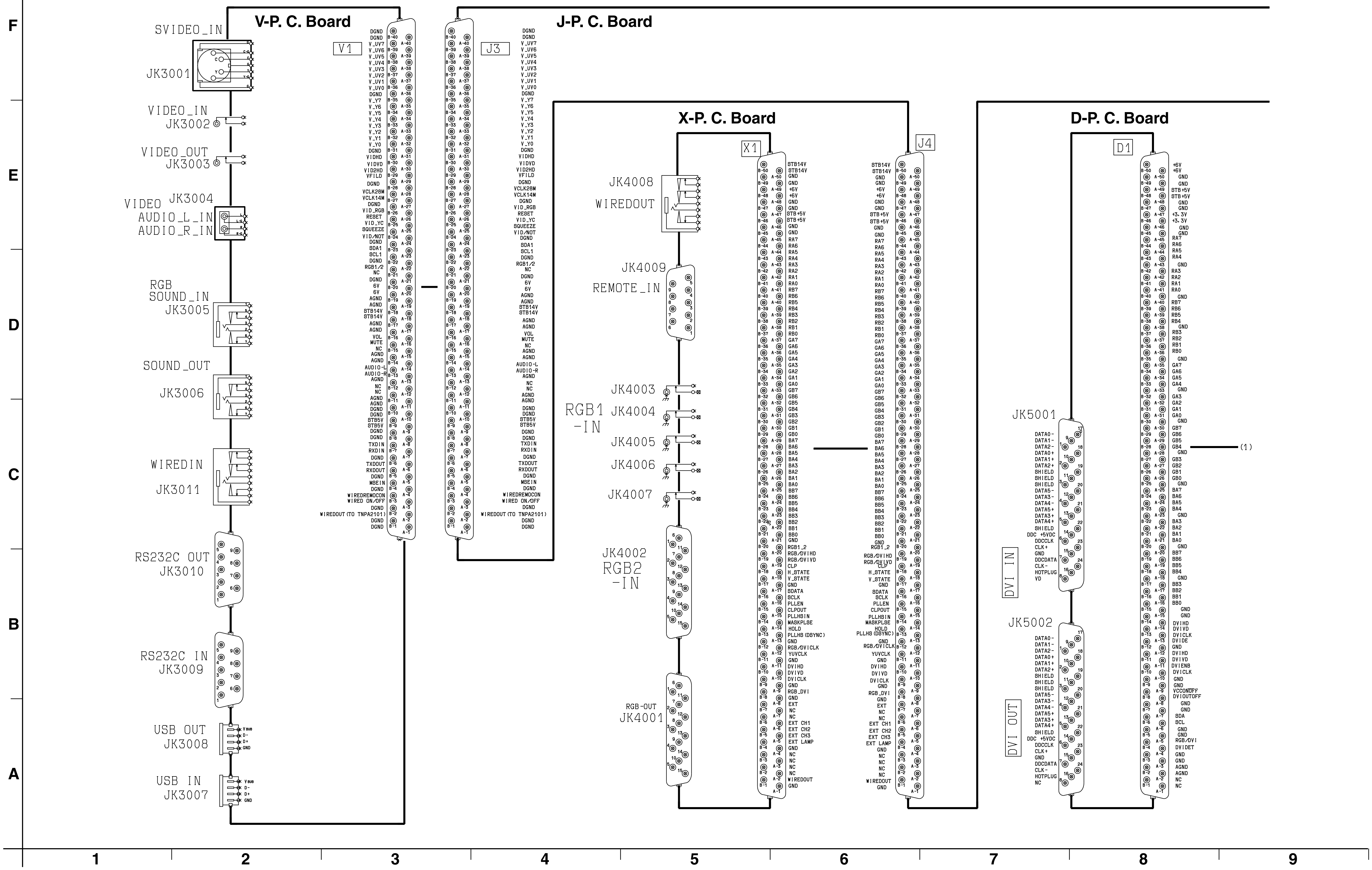


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
JK5001
G12A2131
DVI IN
JK5002
G12A2131
DVI OUT
IC5001
C3EBCC000020
IC5002
C0JBAZ000855
IC5003
C0JBAZ001265
IC5004
C0CBCBE00001
IC5005
C0CBCBE00001
IC5006
C0CBCBE00001
IC5007
C0CBCBE00001
IC5008
C0CBADG00010
IC5009
SiI150ACT100
Transmitter
IC5010
SiI151ACT100
Receiver
D1
TO J-P.C.B. (J5)
IC5011-48
4.8Vp-p 10ms/div
IC4011-47
4.6Vp-p 20µs/div
STB5V
+5V
3.3V
EXCCET103U
EXB38V473JV
EXB38V0R000V
EXB38V330JV
EXB38V220JV
EXB38V472JV
TP01
TP02
TP03
TP04
TP05
TP06
TP07
TP08
TP09
TP010
RGB DVI
DVICLK
DVIDE
DVIHD
DVIVD
DDCCLK
DDCDATA
VCCONOFF
DVIOUTOFF

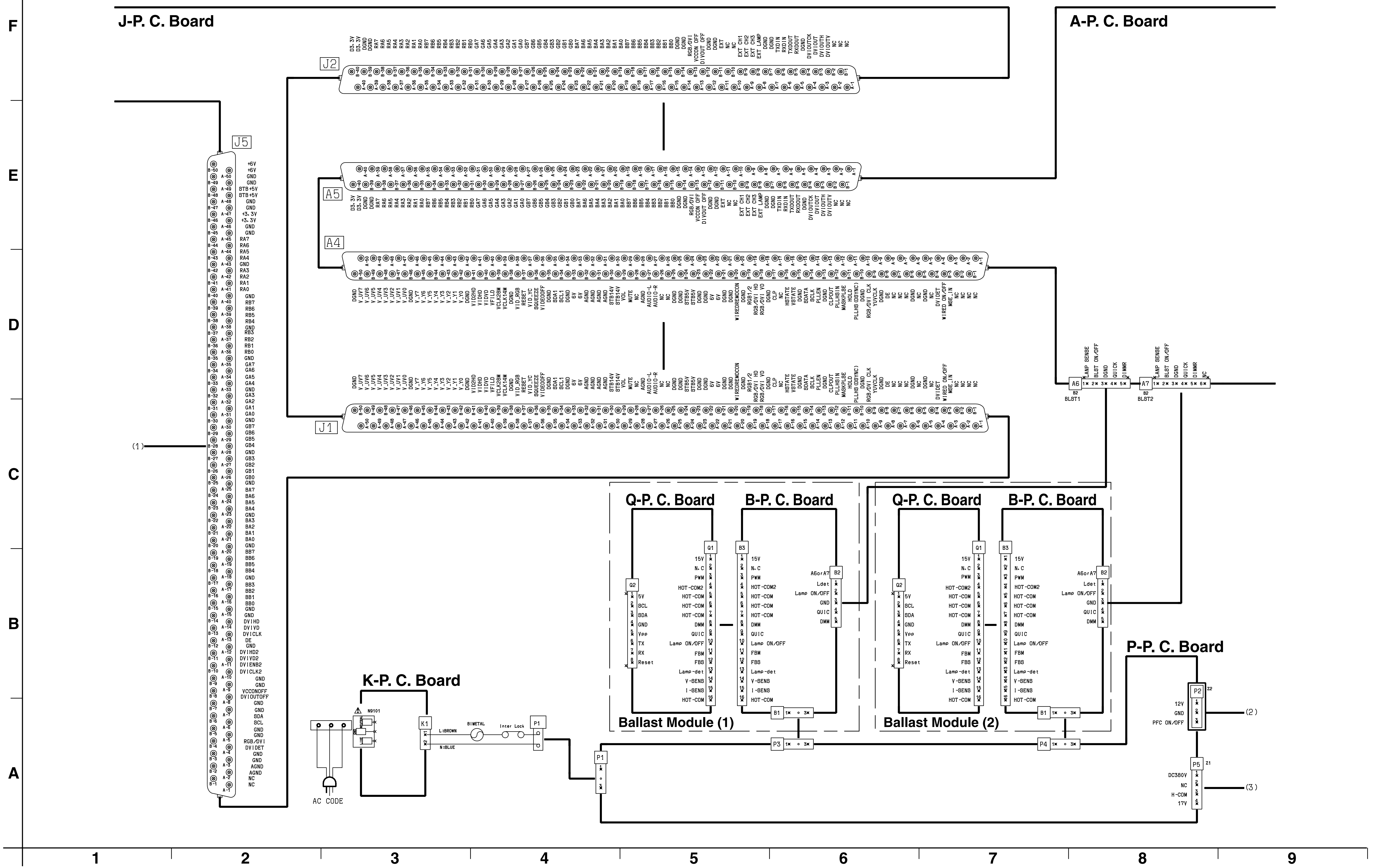
G-P. C. Board TNPA2112


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
TO
A-P.C.B.
(A10)
G1
FAN_SENSE
FAN_ON/OFF
SCL
SDA
STB+13.5V
L_OUT
GND
R_OUT
MUTE
GND
+5V
IC7502
C0FBBD000086
SLV [92]
IC7503
AN78L05M
REG 5V
IC7501
AN7147N-CM
AUDIO OUTPUT
IC7504
C0CAADH00003
IC7505
C0DBEZE00002
IC7506
C0DBEZE00002
IC7507
C0DBEZE00002
IC7508
C0DBEZE00002
Q7505
Q7506
Q7507
Q7508
Q7509
Q7510
Q7511
Q7512
Q7513
Q7514
Q7515
Q7516
Q7517
Q7518
Q7519
Q7520
Q7521
Q7522
Q7523
Q7525
Q7526
Q7527
Q7528
Q7529
Q7530
Q7531
Q7533
Q7534
2SD0601A0L
2SB0709A0L
JK7501
TJC6137
JK7502
TJC6137
TP7501
TP7502
TP7503
L7501
EXCELDR35V
R1
R2
FAN SENSE
OK:HI
NG:LOW
G4
TO
FAN
FAN SENSE
GND
7.4-12V
G5
TO
LAMP1
FAN
+7.0-12.5V
G6
TO
LAMP2
FAN
G7
TO
FAN
G8
TO
POWER
FAN
G9
TO
BALLAST1
FAN
G10
TO
BALLAST2
FAN
G2
TO
P-P.C.B.
(P4)
AUDIO +20V
AUDIO GND
FAN SENSE2
FAN GND
STB+13.5V
STB+13.5V
G12
TO
BALLAST3
FAN
G3
SPEAKER_L
G11
SPEAKER_R

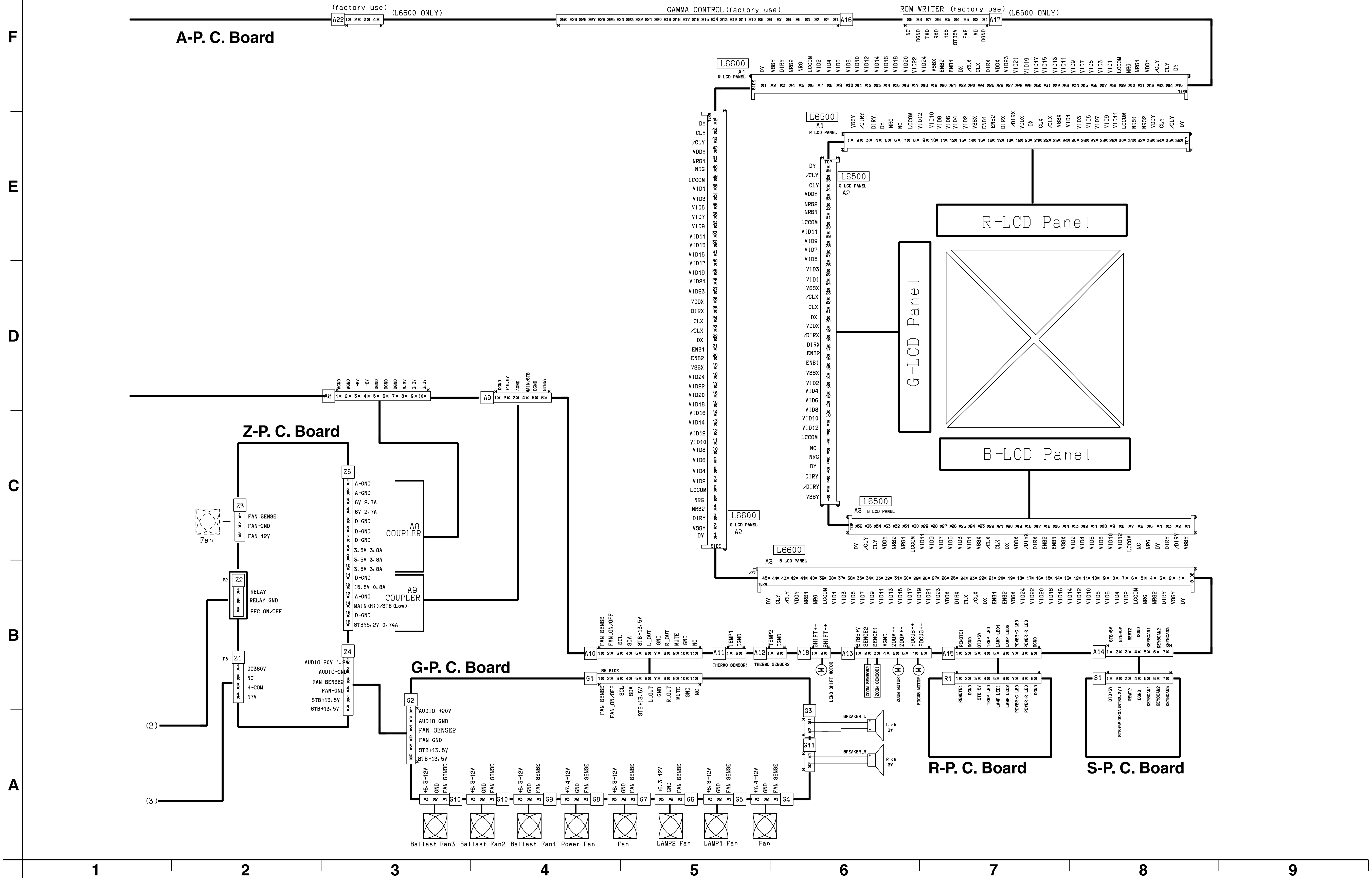
Interconnection Block Diagram (1/3)


V-P. C. Board
V1
J-P. C. Board
J3
X-P. C. Board
X1
J4
D-P. C. Board
D1
SVIDEO_IN
JK3001
VIDEO_IN
JK3002
VIDEO_OUT
JK3003
VIDEO
JK3004
AUDIO_L_IN
AUDIO_R_IN
RGB
SOUND_IN
JK3005
SOUND_OUT
JK3006
WIREDIN
JK3011
RS232C OUT
JK3010
RS232C IN
JK3009
USB OUT
JK3008
USB IN
JK3007
JK4008
WIREDOUT
JK4009
REMOTE_IN
JK4003
RGB1
-IN
JK4004
JK4005
JK4006
JK4007
JK4002
RGB2
-IN
RGB-OUT
JK4001
JK5001
DVI IN
JK5002
DVI OUT
(1)
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

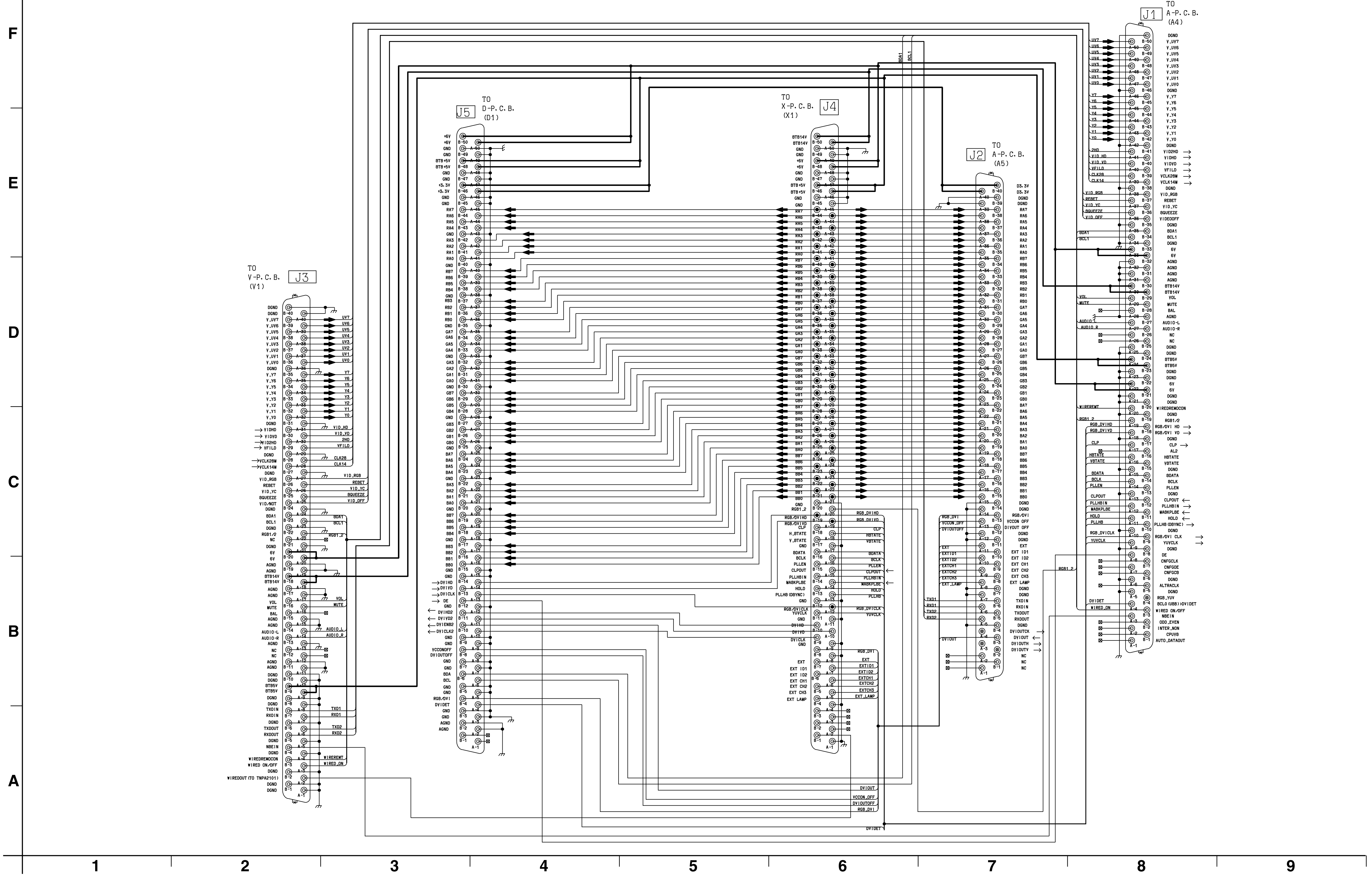
Interconnection Block Diagram (2/3)


J-P. C. Board
A-P. C. Board
J2
J5
A5
A4
J1
A6
A7
BLST1
BLST2
LAMP SENSE
BLST ON/OFF
DGND
QUICK
DIMMR
NC
(1)
+6V
+6V
GND
GND
STB+5V
STB+5V
GND
GND
+3.3V
+3.3V
GND
GND
RA7
RA6
RA5
RA4
GND
RA3
RA2
RA1
RA0
GND
RB7
RB6
RB5
RB4
GND
RB3
RB2
RB1
RB0
GND
GA7
GA6
GA5
GA4
GND
GA3
GA2
GA1
GA0
GND
GB7
GB6
GB5
GB4
GND
GB3
GB2
GB1
GB0
GND
BA7
BA6
BA5
BA4
GND
BA3
BA2
BA1
BA0
GND
BB7
BB6
BB5
BB4
GND
BB3
BB2
BB1
BB0
GND
GND
DVIHD
DVIVD
DVICLK
DE
GND
DVIHD2
DVIVD2
DVIENB2
DVICLK2
GND
GND
VCCONOFF
DVIOUTOFF
GND
GND
SDA
SCL
GND
GND
RGB/DVI
DVIDET
GND
GND
AGND
AGND
NC
NC
D3.3V
D3.3V
DGND
DGND
RGB/DVI
VCCON OFF
DIVOUT OFF
EXT
EXT CH1
EXT CH2
EXT CH3
EXT LAMP
TXDIN
RXDIN
TXDOUT
RXDOUT
DVIOUTCK
DVIOUT
DVIOUTH
DVIOUTV
V_UV7
V_UV6
V_UV5
V_UV4
V_UV3
V_UV2
V_UV1
V_UV0
V_Y7
V_Y6
V_Y5
V_Y4
V_Y3
V_Y2
V_Y1
V_Y0
VIDHD
VIDVD
VFILD
VCLK28M
VCLK14M
VID_RGB
RESET
VID_YC
SQUEEZE
VIDEOOFF
SDA1
SCL1
6V
AGND
STB14V
VOL
MUTE
AUDIO-L
AUDIO-R
STB5V
WIREDREMOCON
RGB1/2
RGB/DVI HD
RGB/DVI VD
CLP
HSTATE
VSTATE
SDATA
SCLK
PLLEN
CLPOUT
PLLHSIN
MASKPLSE
HOLD
PLLHS(DSYNC)
RGB/DVI CLK
YUVCLK
DVIDET
WIRED ON/OFF
MBE_IN
Q-P. C. Board
B-P. C. Board
Q-P. C. Board
B-P. C. Board
Q1
Q2
B3
B2
B1
15V
N.C
PWM
HOT-COM2
HOT-COM
QUIC
Lamp ON/OFF
FBM
FBS
Lamp-det
V-SENS
I-SENS
DMM
5V
SCL
SDA
GND
Vpp
TX
RX
Reset
A6orA7
Ldet
Ballast Module (1)
Ballast Module (2)
K-P. C. Board
N9101
K1
L:BROWN
N:BLUE
BIMETAL
Inter Lock
P1
AC CODE
P3
P4
P-P. C. Board
P2
Z2
12V
GND
PFC ON/OFF
(2)
P5
Z1
DC380V
NC
H-COM
17V
(3)
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

Interconnection Block Diagram (3/3)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
A-P. C. Board
(factory use)
A22
(L6600 ONLY)
GAMMA CONTROL (factory use)
A16
ROM WRITER (factory use)
A17
(L6500 ONLY)
NC
DGND
TXD
RXD
RES
STB5V
FWE
MD
DGND
L6600
A1
R LCD PANEL
L6500
A1
R LCD PANEL
L6500
G LCD PANEL
A2
L6600
G LCD PANEL
A2
L6500
A3
B LCD PANEL
L6600
A3
B LCD PANEL
R-LCD Panel
G-LCD Panel
B-LCD Panel
A8
AGND
AGND
6V
6V
DGND
DGND
DGND
3.3V
3.3V
3.3V
A9
DGND
+15.5V
AGND
MAIN/STB
DGND
STB5V
Z-P. C. Board
Z5
A-GND
A-GND
6V 2.7A
6V 2.7A
D-GND
D-GND
D-GND
3.5V 3.8A
3.5V 3.8A
3.5V 3.8A
D-GND
15.5V 0.8A
A-GND
MAIN(H)/STB(Low)
D-GND
STBY5.2V 0.74A
A8
COUPLER
A9
COUPLER
Z3
FAN SENSE
FAN-GND
FAN 12V
Fan
Z2
P2
RELAY
RELAY GND
PFC ON/OFF
Z1
P5
DC380V
NC
H-COM
17V
Z4
AUDIO 20V 1.2A
AUDIO-GND
FAN SENSE2
FAN-GND
STB+13.5V
STB+13.5V
(2)
(3)
G-P. C. Board
G2
AUDIO +20V
AUDIO GND
FAN SENSE2
FAN GND
STB+13.5V
STB+13.5V
A10
G1
SH SIDE
FAN_SENSE
FAN_ON/OFF
SCL
SDA
STB+13.5V
L_OUT
GND
R_OUT
MUTE
GND
NC
A11
TEMP1
DGND
THERMO SENSOR1
A12
TEMP2
DGND
THERMO SENSOR2
A18
SHIFT+-
SHIFT-+
LENS SHIFT MOTOR
A13
STB5+V
SENCE2
SENCE1
MGND
ZOOM-+
ZOOM+-
FOCUS-+
FOCUS+-
ZOOM SENSOR2
ZOOM SENSOR1
ZOOM MOTOR
FOCUS MOTOR
A15
R1
REMOTE1
DGND
STB+5V
TEMP LED
LAMP LED1
LAMP LED2
POWER-G LED
POWER-R LED
DGND
R-P. C. Board
A14
S1
STB+5V
STB+5V (SXGA:STB3.3V)
REMT2
DGND
KEYSCAN1
KEYSCAN2
KEYSCAN3
S-P. C. Board
G3
SPEAKER_L
L ch 3W
G11
SPEAKER_R
R ch 3W
G10
G10
G9
G8
G7
G6
G5
G4
+6.3-12V
GND
FAN SENSE
+7.4-12V
Ballast Fan3
Ballast Fan2
Ballast Fan1
Power Fan
Fan
LAMP2 Fan
LAMP1 Fan
Fan

J-P. C. Board TNPA2099


J1
TO
A-P.C.B.
(A4)
J2
TO
A-P.C.B.
(A5)
J3
TO
V-P.C.B.
(V1)
J4
TO
X-P.C.B.
(X1)
J5
TO
D-P.C.B.
(D1)
SDA1
SCL1
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

F

E

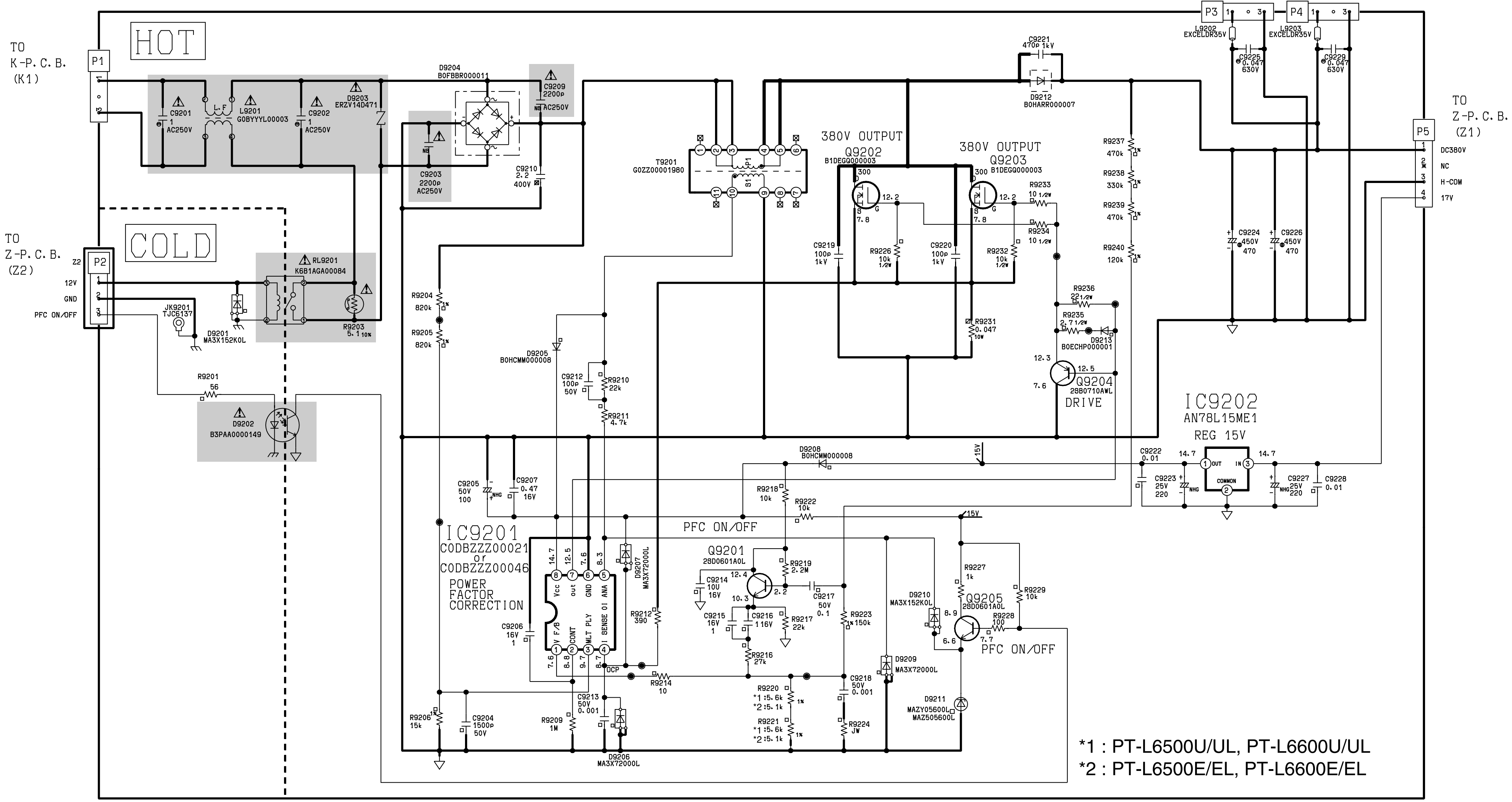
D

C

B

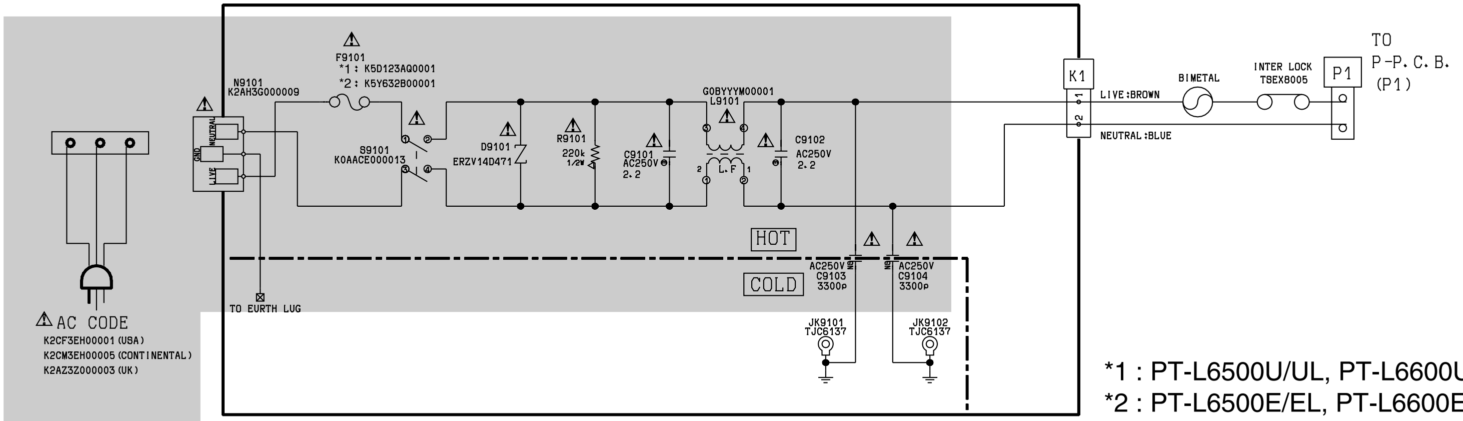
A

P-P. C. Board TNPA2108


HOT
COLD
TO K-P. C. B. (K1)
P1
TO Z-P. C. B. (Z2)
P2
12V
GND
PFC ON/OFF
JK9201 TJC6137
D9201 MA3X152K0L
R9201 56
D9202 B3PAA0000149
C9201 1 AC250V
L9201 G0BYYYL00003
C9202 1 AC250V
D9203 ERZV14D471
D9204 B0FBBR000011
C9203 2200p AC250V
C9209 2200p AC250V
C9210 2.2 400V
RL9201 K6B1AGA00084
R9203 5.1
T9201 G0ZZ00001980
380V OUTPUT Q9202 B1DEGQ000003
380V OUTPUT Q9203 B1DEGQ000003
C9221 470p 1kV
D9212 B0HARR000007
C9219 100p 1kV
R9226 10k
C9220 100p 1kV
R9232 10k
R9231 0.047
R9233 10
R9234 10
R9236 22
R9235 2.7
D9213 B0ECHP000001
Q9204 2SB0710AWL DRIVE
R9237 470k
R9238 330k
R9239 470k
R9240 120k
TO B-P. C. B. (B1)
P3
L9202 EXCELDR35V
C9225 0.047 630V
TO B-P. C. B. (B1)
P4
L9203 EXCELDR35V
C9229 0.047 630V
TO Z-P. C. B. (Z1)
P5
DC380V
NC
H-COM
17V
C9224 450V 470
C9226 450V 470
IC9202 AN78L15ME1 REG 15V
C9222 0.01
C9223 25V 220
C9227 25V 220
C9228 0.01
R9204 820k
R9205 820k
D9205 B0HCMM000008
C9212 100p 50V
R9210 22k
R9211 4.7k
C9205 50V 100
C9207 0.47 16V
D9208 B0HCMM000008
15V
R9218 10k
R9222 10k
PFC ON/OFF
IC9201 C0DBZZZ00021 or C0DBZZZ00046 POWER FACTOR CORRECTION
D9207 MA3X72000L
R9212 390
C9206 16V 1
Q9201 2SD0601A0L
C9214 10V 16V
C9215 16V 1
C9216 1 16V
R9219 2.2M
C9217 50V 0.1
R9217 22k
R9216 27k
R9223 150k
R9214 10
R9220 *1:5.6k *2:5.1k
R9221 *1:5.6k *2:5.1k
C9218 50V 0.001
R9224 JW
D9209 MA3X72000L
D9210 MA3X152K0L
R9227 1k
Q9205 2SD0601A0L
R9229 10k
R9228 100
PFC ON/OFF
D9211 MAZY05600L MAZ5056000L
R9206 15k
C9204 1500p 50V
R9209 1M
C9213 50V 0.001
D9206 MA3X72000L

*1 : PT-L6500U/UL, PT-L6600U/UL
*2 : PT-L6500E/EL, PT-L6600E/EL

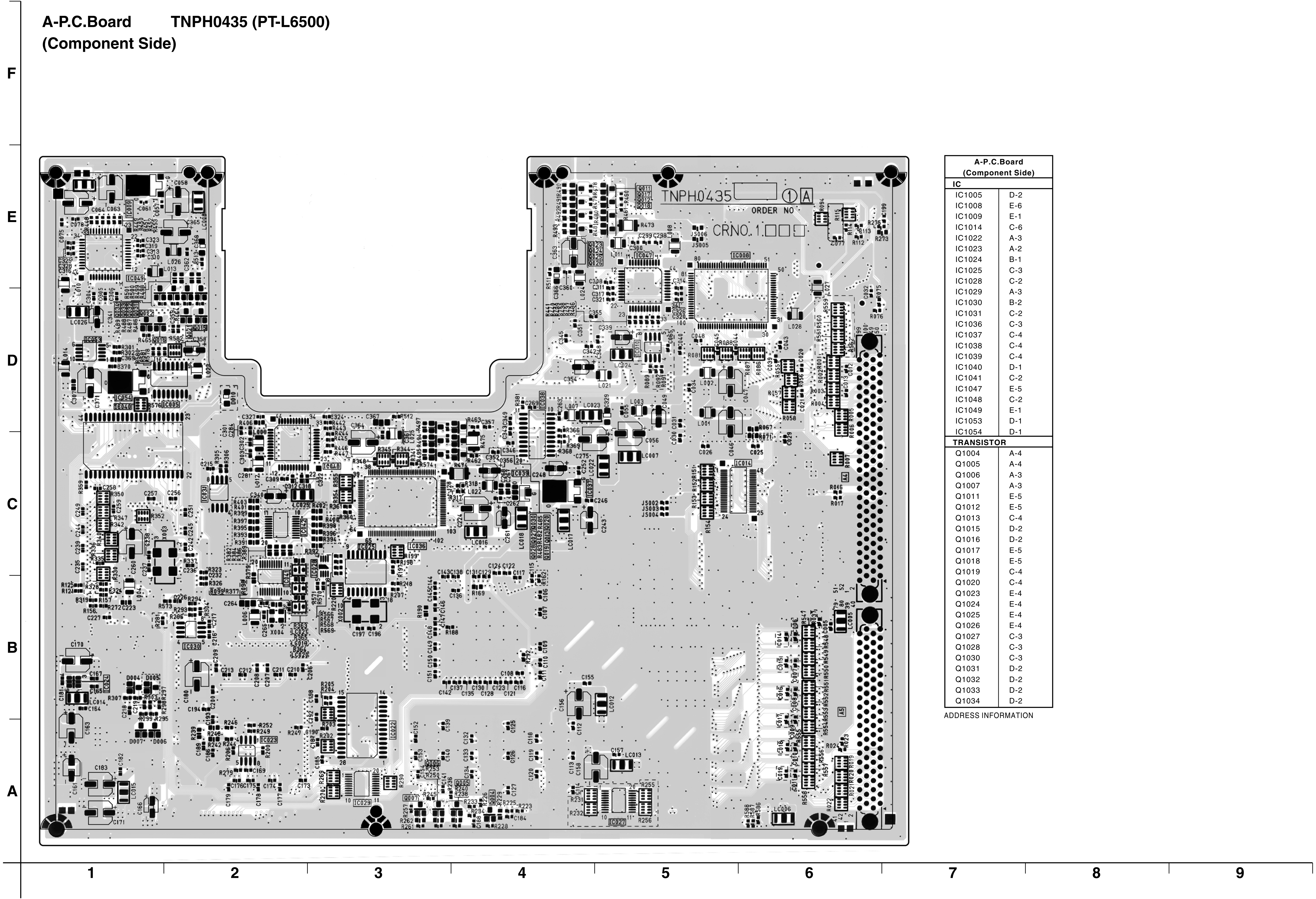
K-P. C. Board TXANP03VJE4


AC CODE
K2CF3EH00001 (USA)
K2CM3EH00005 (CONTINENTAL)
K2AZ3Z000003 (UK)
N9101 K2AH3G000009
TO EURTH LUG
F9101 *1: K5D123AQ0001 *2: K5Y632B00001
S9101 K0AACE000013
D9101 ERZV14D471
R9101 220k 1/2W
C9101 AC250V 2.2
G0BYYYW00001 L9101
C9102 AC250V 2.2
HOT
COLD
AC250V C9103 3300p
AC250V C9104 3300p
JK9101 TJC6137
JK9102 TJC6137
K1
LIVE:BROWN
NEUTRAL:BLUE
BIMETAL
INTER LOCK T8EX8005
P1
TO P-P. C. B. (P1)

*1 : PT-L6500U/UL, PT-L6600U/UL
*2 : PT-L6500E/EL, PT-L6600E/EL

1 2 3 4 5 6 7 8 9

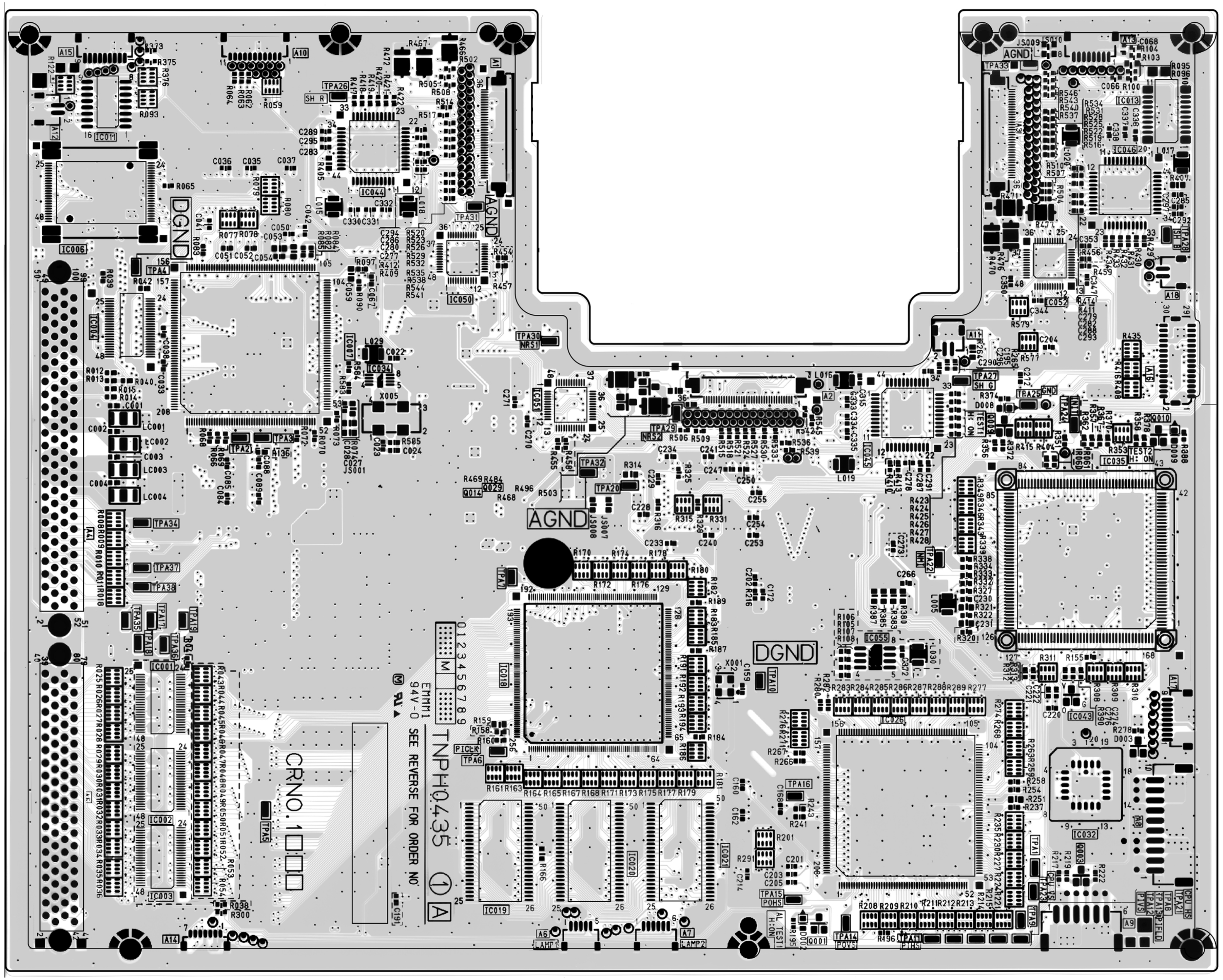
A-P.C.Board TNPH0435 (PT-L6500)
(Component Side)



A-P.C.Board (Component Side)	
IC	
IC1005	D-2
IC1008	E-6
IC1009	E-1
IC1014	C-6
IC1022	A-3
IC1023	A-2
IC1024	B-1
IC1025	C-3
IC1028	C-2
IC1029	A-3
IC1030	B-2
IC1031	C-2
IC1036	C-3
IC1037	C-4
IC1038	C-4
IC1039	C-4
IC1040	D-1
IC1041	C-2
IC1047	E-5
IC1048	C-2
IC1049	E-1
IC1053	D-1
IC1054	D-1
TRANSISTOR	
Q1004	A-4
Q1005	A-4
Q1006	A-3
Q1007	A-3
Q1011	E-5
Q1012	E-5
Q1013	C-4
Q1015	D-2
Q1016	D-2
Q1017	E-5
Q1018	E-5
Q1019	C-4
Q1020	C-4
Q1023	E-4
Q1024	E-4
Q1025	E-4
Q1026	E-4
Q1027	C-3
Q1028	C-3
Q1030	C-3
Q1031	D-2
Q1032	D-2
Q1033	D-2
Q1034	D-2

ADDRESS INFORMATION

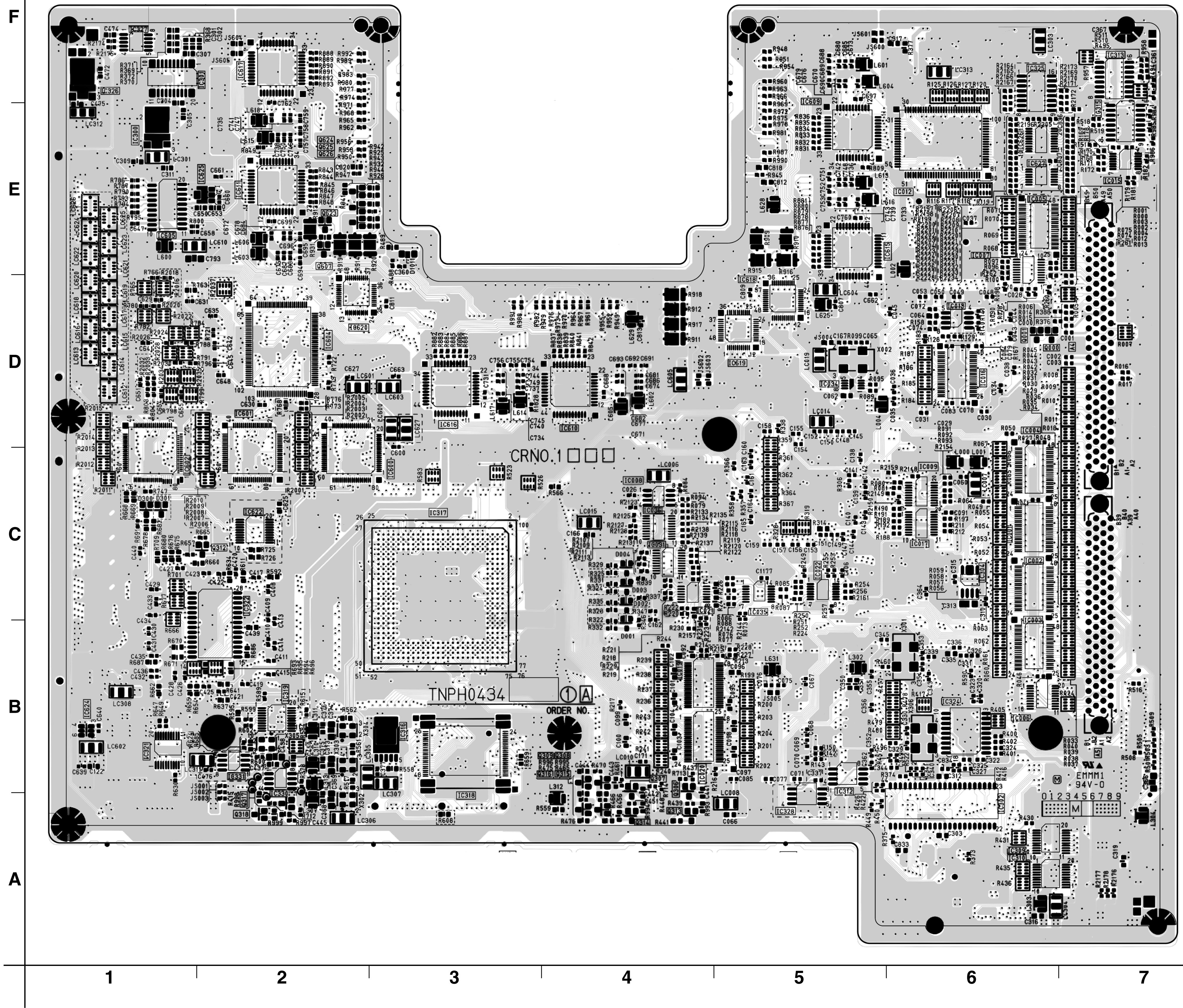
A-P.C.Board TNPH0435 (PT-L6500)
(Foil Side)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
AGND
DGND
AGND
DGND
AGND
TNPH0435 ① A
SEE REVERSE FOR ORDER NO
CRNO.1
EMMM1
94V-0
0 1 2 3 4 5 6 7 8 9

A-P.C.Board(Foil Side)	
IC	
IC1004	D-1
IC1006	D-1
IC1007	D-2
IC1011	E-1
IC1013	E-6
IC1018	B-3
IC1019	A-3
IC1020	A-4
IC1021	A-4
IC1026	B-5
IC1032	B-6
IC1034	D-2
IC1035	C-6
IC1043	B-6
IC1044	E-2
IC1045	C-5
IC1046	E-6
IC1050	D-3
IC1051	D-4
IC1052	D-6
TRANSISTOR	
Q1001	A-5
Q1003	A-6
Q1009	C-6
Q1010	C-6
Q1014	C-3
Q1019	C-3
TP	
TPA1	A-6
TPA2	C-2
TPA3	C-2
TPA4	D-1
TPA5	A-2
TPA6	B-3
TPA7	C-3
TPA8	A-6
TPA9	A-6
TPA10	B-4
TPA11	A-5
TPA12	A-6
TPA13	A-6
TPA14	A-5
TPA15	A-5
TPA16	B-5
TPA17	B-1
TPA18	B-1
TPA19	B-1
TPA20	C-4
TPA21	A-6
TPA22	C-5
TPA23	A-6
TPA24	C-6
TPA25	C-6
TPA26	E-2
TPA27	D-5
TPA28	D-6
TPA29	C-4
TPA30	D-3
TPA31	D-3
TPA32	C-4
TPA33	E-6
TPA34	C-1
TPA35	B-1
TPA36	B-1
TPA37	C-1
TPA38	C-1

ADDRESS INFORMATION

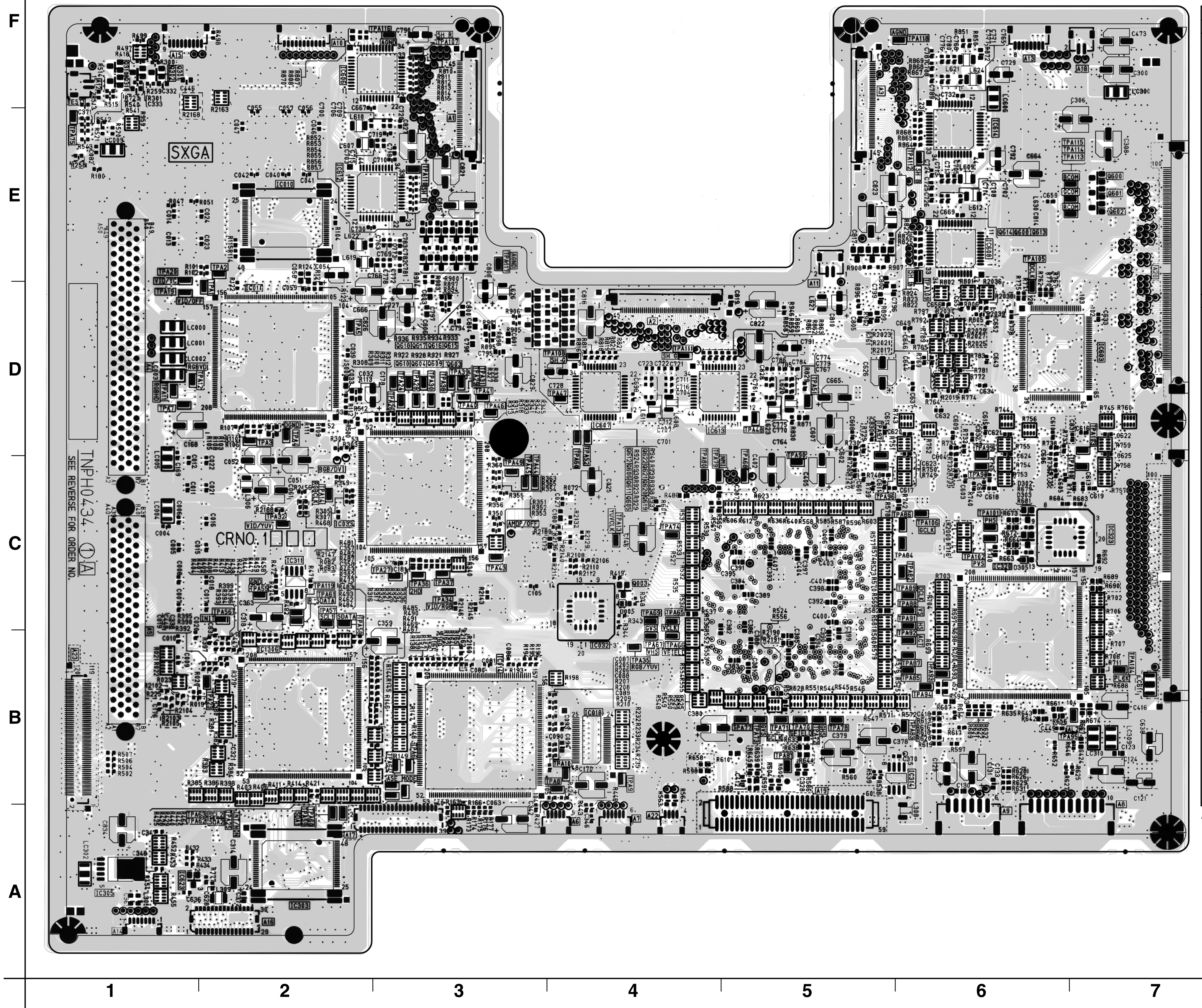
A-P.C.Board TNPH0434 (PT-L6600)
(Component Side)



A-P.C.Board(Component Side)			
IC		IC1324	B-6
IC1001	C-6	IC1326	F-1
IC1002	C-6	IC1327	F-1
IC1003	B-6	IC1600	C-2
IC1004	C-6	IC1601	C-2
IC1005	E-6	IC1602	C-1
IC1006	B-6	IC1604	D-2
IC1007	E-6	IC1605	E-1
IC1008	C-4	IC1609	E-5
IC1009	C-6	IC1610	D-4
IC1012	E-6	IC1611	E-2
IC1013	D-6	IC1615	E-5
IC1015	E-7	IC1616	D-3
IC1016	D-6	IC1617	F-2
IC1017	C-6	IC1618	D-5
IC1019	B-4	IC1619	D-5
IC1020	B-4	IC1620	D-2
IC1021	C-4	IC1624	B-1
IC1022	C-5	IC1625	E-2
IC1034	D-5	**TRANSISTOR**	
IC1035	C-5	Q1000	D-6
IC1036	C-4	Q1001	D-6
IC1300	E-1	Q1300	F-6
IC1301	F-1	Q1306	B-4
IC1302	A-6	Q1307	B-4
IC1304	C-6	Q1308	B-4
IC1309	A-6	Q1309	B-4
IC1310	A-6	Q1312	C-2
IC1311	B-6	Q1313	A-4
IC1312	B-6	Q1314	A-4
IC1313	F-7	Q1315	A-4
IC1315	E-7	Q1316	A-4
IC1316	B-3	Q1317	B-2
IC1317	C-3	Q1318	A-2
IC1318	B-3	Q1607	E-2
IC1319	B-2	Q1623	E-2
IC1321	B-1		
IC1322	C-2		

ADDRESS INFORMATION

A-P.C.Board TNPH0434 (PT-L6600)
(Foil Side)



A-P.C.Board(Foil Side)					
IC		TPA8	B-4	TPA77	B-5
IC1010	E-2	TPA9	B-4	TPA78	B-5
IC1011	D-2	TPA19	D-1	TPA79	C-5
IC1014	B-3	TPA20	E-1	TPA80	C-4
IC1018	B-4	TPA21	C-2	TPA81	B-5
IC1032	C-4	TPA22	C-2	TPA82	C-6
IC1033	C-3	TPA23	B-2	TPA83	B-6
IC1303	A-2	TPA24	D-3	TPA84	C-6
IC1305	A-1	TPA25	B-3	TPA85	B-6
IC1306	B-2	TPA26	D-3	TPA86	C-6
IC1314	B-6	TPA27	C-3	TPA87	B-6
IC1320	C-6	TPA28	D-3	TPA88	C-6
IC1323	C-6	TPA29	D-3	TPA89	C-6
IC1603	D-6	TPA30	D-3	TPA90	C-5
IC1606	F-2	TPA31	D-3	TPA91	C-6
IC1607	D-4	TPA32	C-2	TPA92	B-6
IC1608	E-6	TPA33	C-3	TPA93	B-6
IC1612	E-2	TPA34	C-3	TPA94	B-6
IC1613	D-5	TPA35	B-4	TPA95	B-7
IC1614	E-6	TPA36	C-3	TPA96	C-5
IC1623	A-1	TPA37	C-3	TPA97	C-5
TRANSISTOR		TPA38	D-3	TPA98	C-6
Q1003	C-4	TPA39	D-3	TPA99	C-6
Q1301	F-1	TPA40	D-3	TPA100	C-7
Q1302	F-1	TPA41	D-3	TPA101	C-6
Q1310	F-1	TPA42	C-3	TPA102	C-6
Q1311	F-1	TPA43	C-3	TPA103	D-7
Q1600	E-7	TPA44	C-3	TPA104	B-7
Q1601	E-7	TPA45	C-3	TPA105	D-6
Q1602	E-7	TPA46	D-3	TPA106	C-6
Q1603	E-3	TPA47	D-4	TPA107	F-3
Q1604	E-3	TPA48	D-5	TPA108	D-4
Q1605	D-3	TPA49	C-3	TPA109	E-6
Q1606	D-3	TPA50	D-4	TPA110	E-3
Q1608	E-5	TPA51	D-5	TPA111	D-4
Q1609	E-3	TPA52	D-4	TPA112	E-6
Q1610	E-3	TPA53	F-2	TPA113	E-7
Q1611	D-3	TPA54	B-2	TPA114	E-7
Q1612	D-3	TPA55	C-2	TPA115	E-7
Q1613	E-5	TPA56	B-2	TPA116	F-3
Q1614	E-5	TPA57	C-2	TPA117	D-5
Q1615	E-3	TPA58	C-2	TPA118	F-6
Q1616	E-3	TPA59	A-2	TPA119	C-2
Q1617	E-3	TPA60	A-2		
Q1618	E-3	TPA61	C-2		
Q1619	D-4	TPA62	B-2		
Q1620	D-4	TPA63	B-2		
Q1621	D-4	TPA64	B-3		
Q1622	D-4	TPA65	C-4		
Q1624	E-5	TPA66	C-4		
Q1625	E-5	TPA67	C-4		
Q1626	E-5	TPA68	C-5		
TP		TPA69	C-4		
TPA1	D-2	TPA70	B-5		
TPA2	E-2	TPA71	B-5		
TPA3	D-2	TPA72	B-5		
TPA4	D-2	TPA73	B-5		
TPA5	D-2	TPA74	C-4		
TPA6	B-3	TPA75	E-1		
TPA7	D-1	TPA76	E-1		

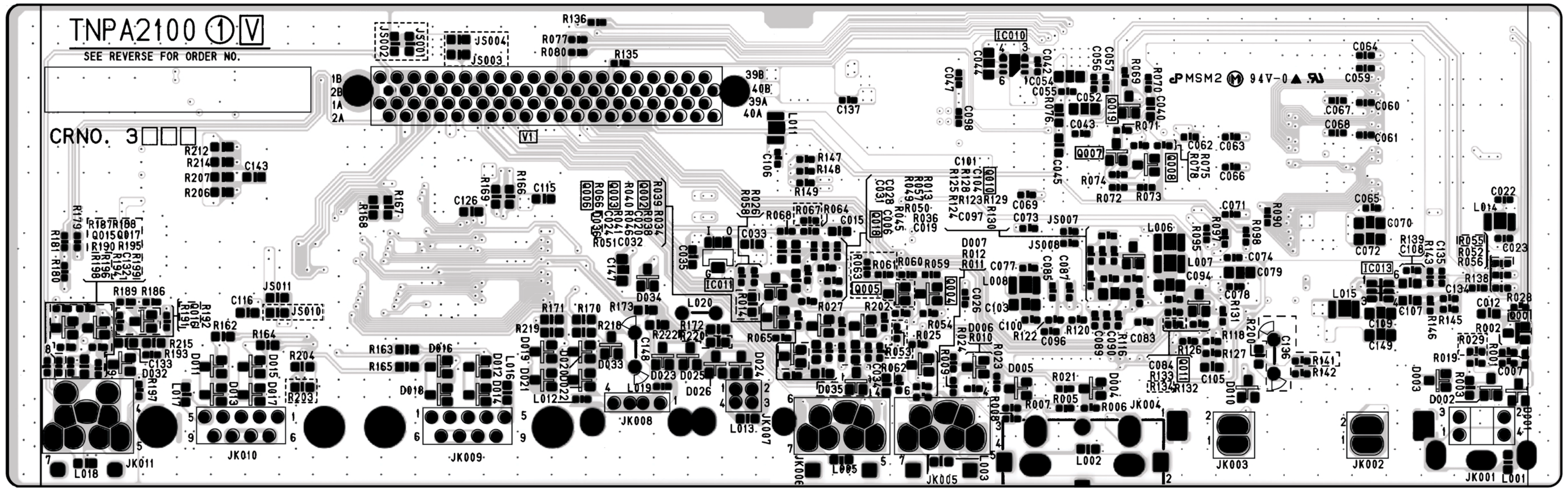
ADDRESS INFORMATION

8
9

V-P.C.Board TNPA2100
(Foil Side)

V-P.C.Board(Foil Side)							
IC		**TRANSISTOR**		Q3006	D-4	Q3018	D-4
IC3010	E-4	Q3001	D-6	Q3007	E-5	Q3019	E-5
IC3011	D-3	Q3002	D-4	Q3008	E-5		
IC3013	D-6	Q3003	D-4	Q3010	D-5		
		Q3004	D-4	Q3011	D-5		

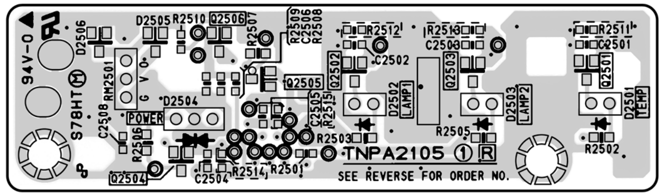
ADDRESS INFORMATION


TNPA2100 ① V
SEE REVERSE FOR ORDER NO.
CRNO. 3□□□
MSM2 94V-0
JK011
JK010
JK009
JK008
JK007
JK006
JK005
JK004
JK003
JK002
JK001

R-P.C.Board TNPA2105
(Foil Side)

R-P.C.Board(Foil Side)			
TRANSISTOR		Q2504	E-7
Q2501	E-9	Q2505	E-8
Q2502	E-8	Q2506	E-8
Q2503	E-8		

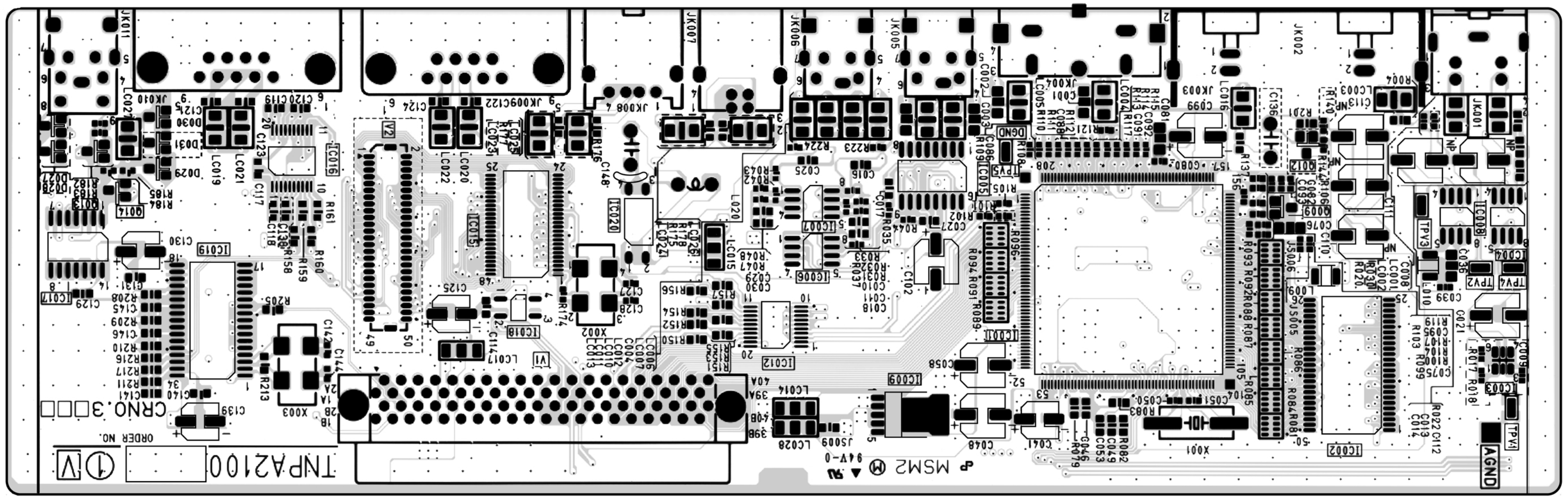
ADDRESS INFORMATION


TNPA2105 ① R
SEE REVERSE FOR ORDER NO.
94V-0
S78HT
POWER
LAMP1
LAMP2
TEMP

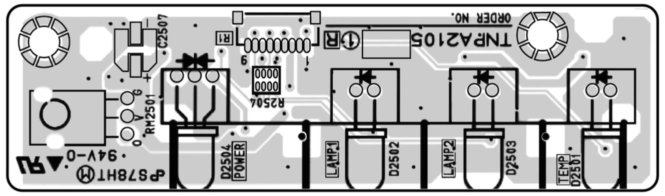
V-P.C.Board TNPA2100
(Component Side)

V-P.C.Board(Component Side)											
IC		IC3006	B-4	IC3015	B-3	IC3020	B-3	**TP**		TPV5	B-4
IC3001	A-5	IC3007	B-4	IC3016	B-2	**TRANSISTOR**		TPV1	A-6		
IC3002	A-6	IC3008	B-6	IC3017	B-1	Q3009	B-5	TPV2	A-6		
IC3004	B-6	IC3009	A-4	IC3018	A-3	Q3013	B-1	TPV3	B-6		
IC3005	B-4	IC3012	A-4	IC3019	A-1	Q3014	B-1	TPV4	A-6		

ADDRESS INFORMATION


TNPA2100 ① V
ORDER NO.
CRNO. 3□□□
MSM2 94V-0
AGND

R-P.C.Board TNPA2105
(Component Side)


TNPA2105 ① R
ORDER NO.
S78HT 94V-0
POWER
LAMP1
LAMP2
TEMP

B-Module TNPA2110
(Foil Side)

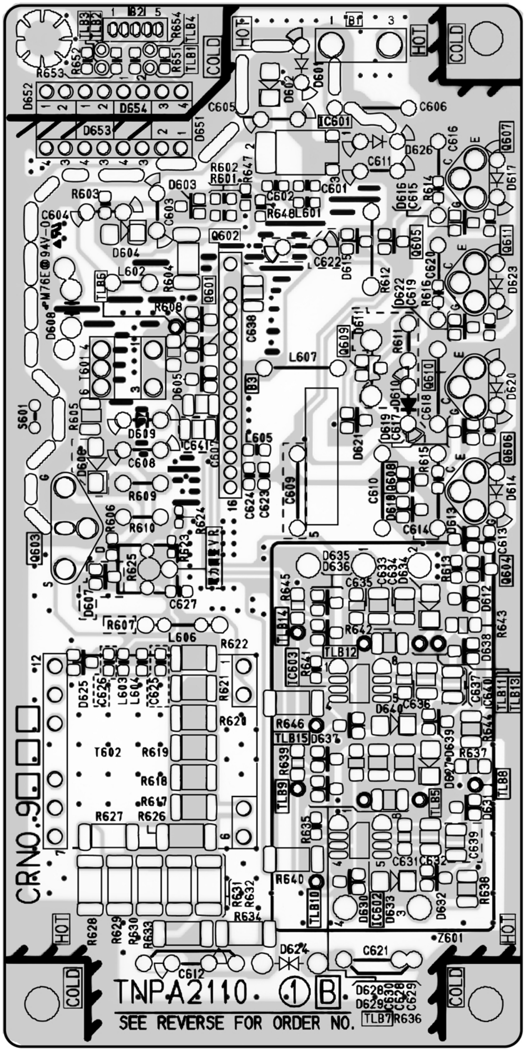
B-P.C.Board(Foil Side)	
TRANSISTOR	
Q9606	C-2
Q9607	D-2
Q9610	C-2
Q9611	C-2
OTHER	
Z9601	B-2

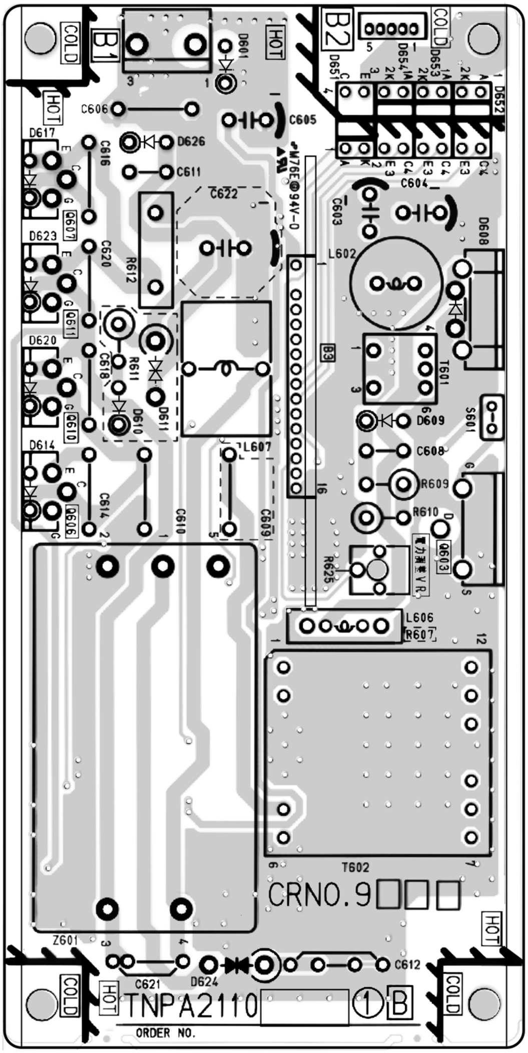
ADDRESS INFORMATION

B-Module TNPA2110
(Component Side)

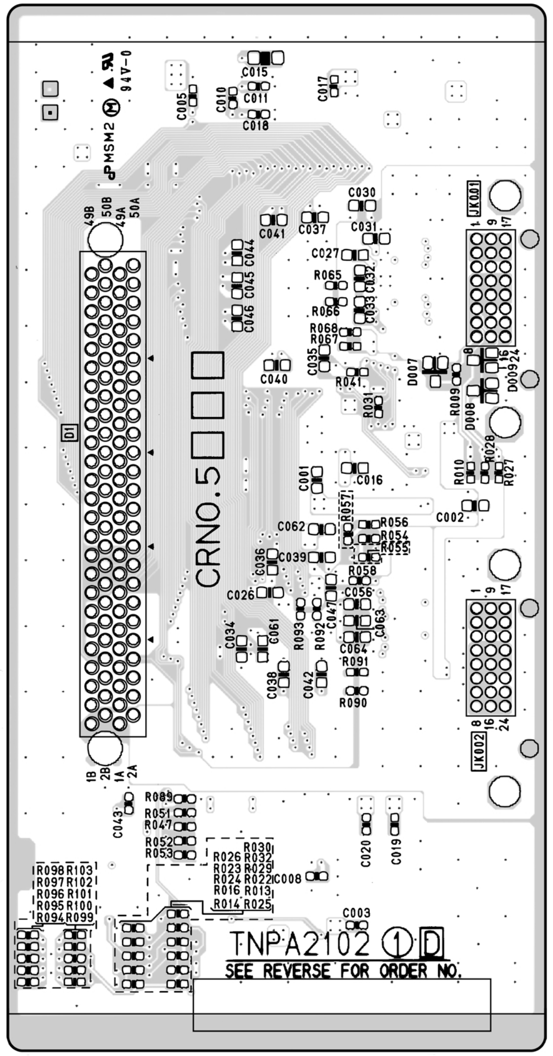
B-P.C.Board (Component Side)	
TRANSISTOR	
Q9606	C-3
Q9607	D-3
Q9610	C-3
Q9611	C-3
OTHER	
Z9601	B-3

ADDRESS INFORMATION


TNPA2110 ① B
SEE REVERSE FOR ORDER NO.
CRNO.9
HOT
COLD
T602
T601
L606
L607
Z601


TNPA2110 ① B
ORDER NO.
CRNO.9
HOT
COLD
B1
B2
T602
T601
L602
L606
L607
Z601

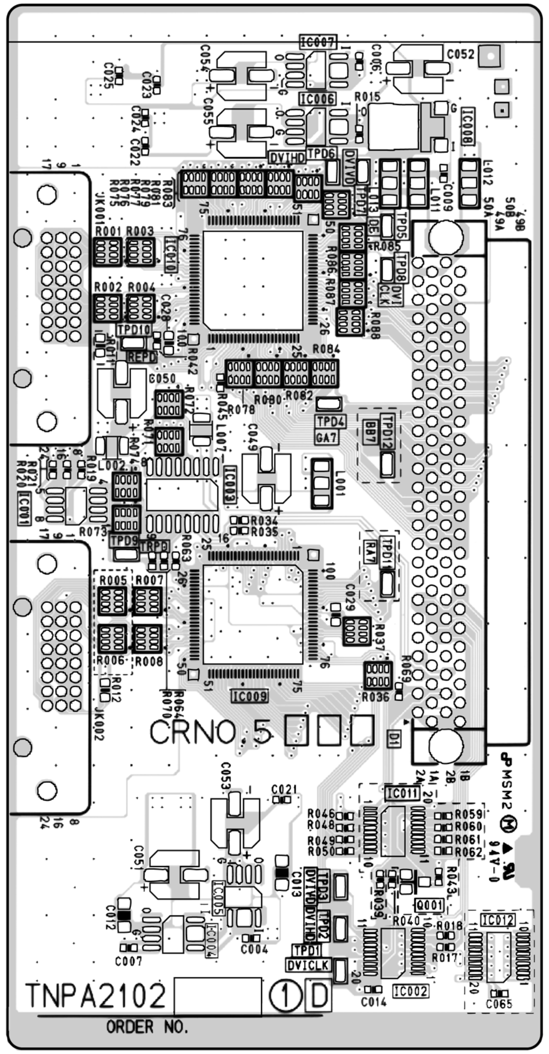
D-P.C.Board TNPA2102
(Foil Side)


CRNO.5
TNPA2102 ① D
SEE REVERSE FOR ORDER NO.
94V-0

D -P.C.Board TNPA2102
(Component Side)

D-P.C.Board(Component Side)			
IC		**TP**	
IC5001	B-3	TPD1	A-4
IC5002	A-4	TPD2	A-4
IC5003	B-3	TPD3	A-4
IC5004	A-3	TPD4	C-4
IC5005	A-4	TPD5	C-4
IC5006	D-4	TPD6	D-4
IC5007	D-4	TPD8	C-4
IC5008	D-4	TPD9	B-3
IC5009	B-4	TPD10	C-3
IC5010	C-4		

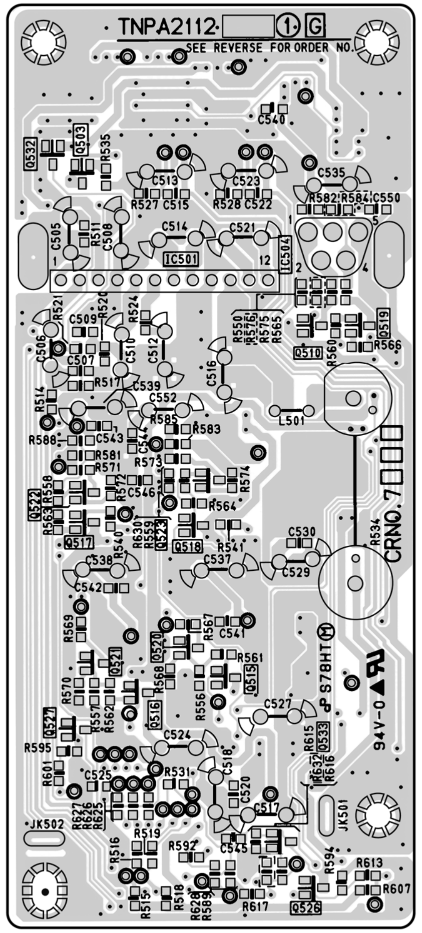
ADDRESS INFORMATION


CRNO.5
TNPA2102 ① D
ORDER NO.
94V-0

G-P.C.Board TNPA2112
(Foil Side)

G-P.C.Board(Foil Side)			
IC		Q7520	B-6
IC7501	C-6	Q7521	B-6
IC7504	C-7	Q7522	B-6
TRANSISTOR		Q7523	B-6
Q7503	C-6	Q7524	A-6
Q7510	C-6	Q7526	A-7
Q7515	A-6	Q7527	A-6
Q7516	A-6	Q7529	A-6
Q7517	B-6	Q7532	C-6
Q7518	B-6	Q7533	A-6
Q7519	C-7		

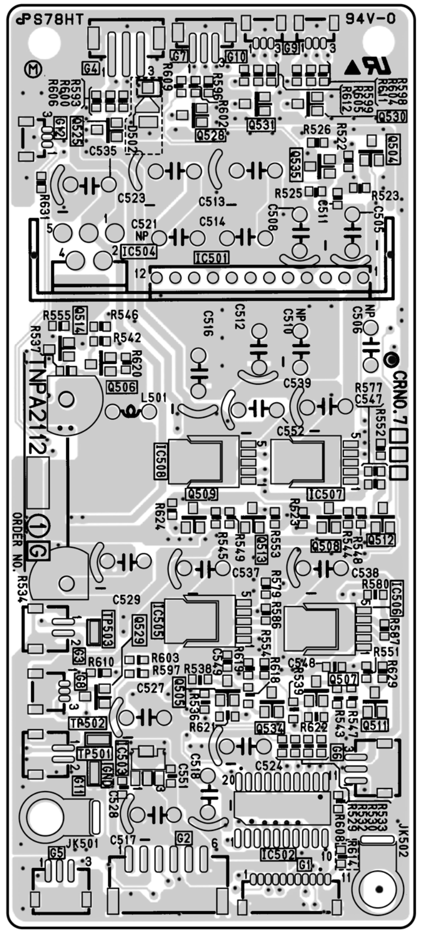
ADDRESS INFORMATION


TNPA2112 ① G
SEE REVERSE FOR ORDER NO.
CRNO.7
S78HT
94V-0

G-P.C.Board TNPA2112
(Component Side)

G-P.C.Board(Component Side)			
IC		Q7509	B-8
IC7501	C-8	Q7511	A-8
IC7502	A-8	Q7512	B-8
IC7503	A-8	Q7513	B-8
IC7504	C-7	Q7514	C-7
IC7505	B-8	Q7525	C-7
IC7506	B-8	Q7528	C-8
IC7507	B-8	Q7530	C-8
IC7508	B-8	Q7531	C-8
TRANSISTOR		Q7534	A-8
Q7504	C-8	Q7535	C-8
Q7505	A-8	**TP**	
Q7506	C-8	TPG7501	A-7
Q7507	A-8	TPG7502	A-7
Q7508	B-8	TPG7503	B-7

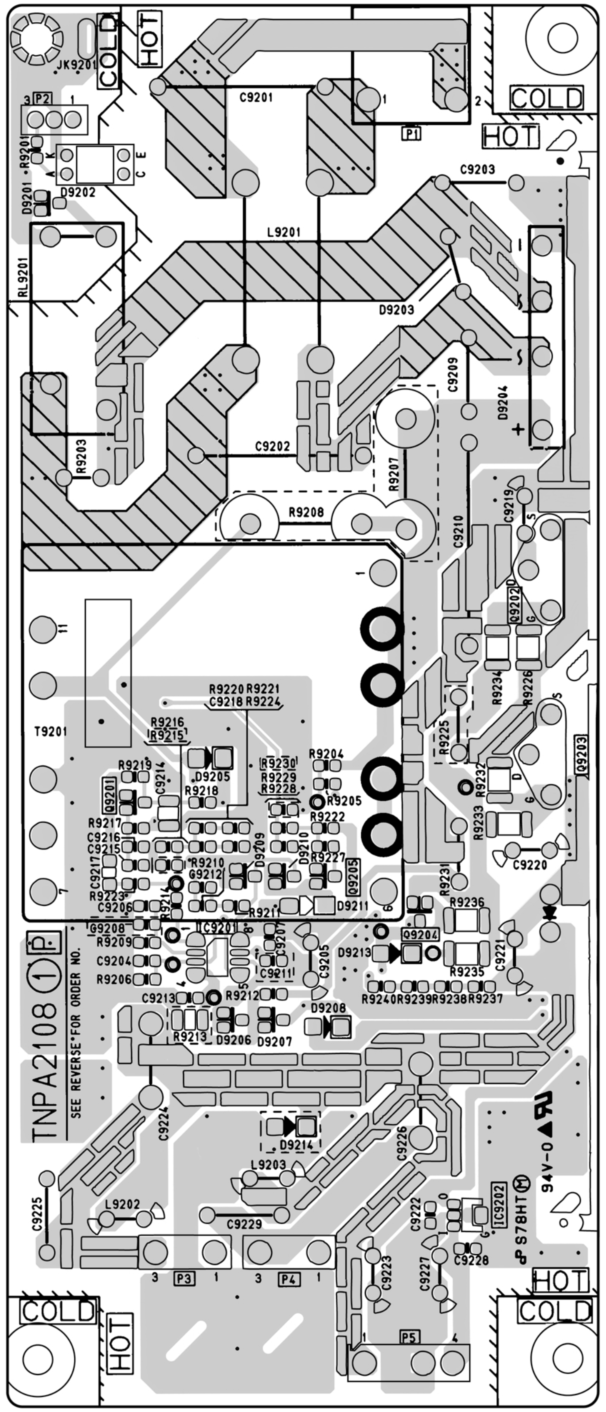
ADDRESS INFORMATION


S78HT
94V-0
TNPA2112
CRNO.7
ORDER NO.

P-P.C.Board TNPA2108
(Foil Side)

P-P.C.Board(Foil Side)			
IC		Q9202	C-2
IC9201	B-1	Q9203	C-2
IC9202	A-2	Q9204	B-2
TRANSISTOR		Q9205	B-2
Q9201	C-1		

ADDRESS INFORMATION

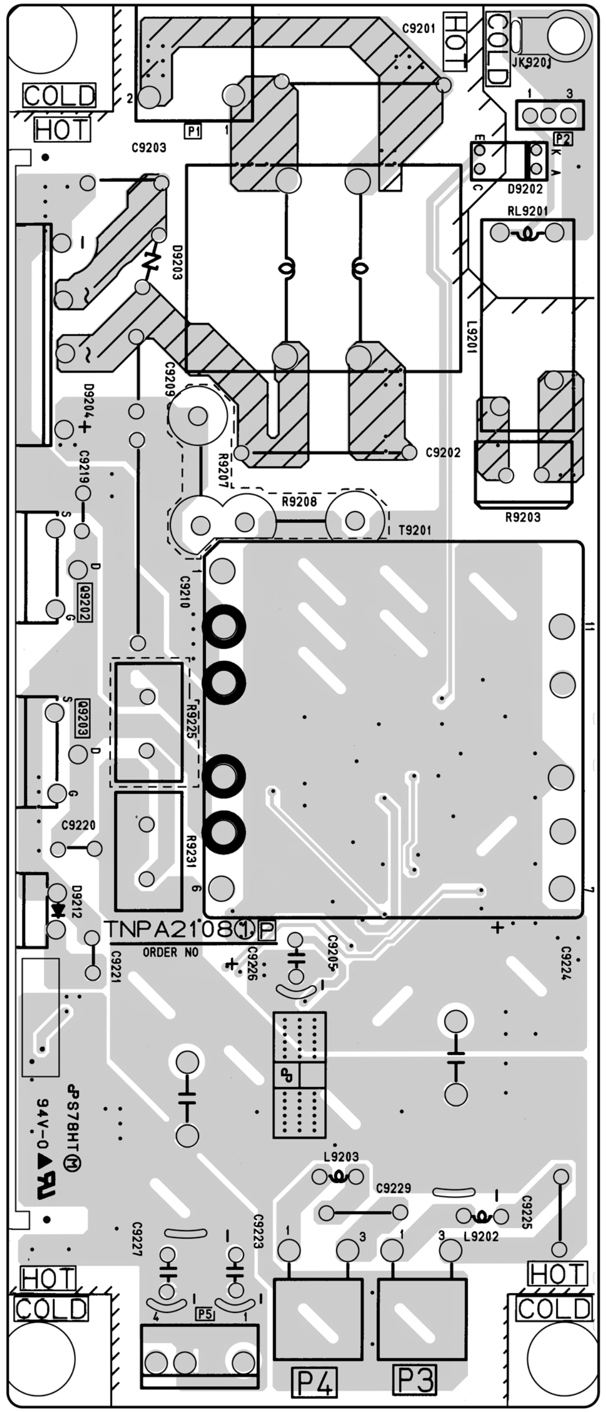


COLD
HOT
JK9201
P2
P1
C9201
C9203
L9201
RL9201
D9203
C9209
D9204
C9202
R9203
R9207
R9208
T9201
TNPA2108 ① P
SEE REVERSE FOR ORDER NO.
P3
P4
P5
IC9202
ᵽ S78HT Ⓜ
94V-0

P-P.C.Board TNPA2108
(Component Side)

P-P.C.Board (Component Side)	
TRANSISTOR	
Q9202	C-3
Q9203	C-3

ADDRESS INFORMATION

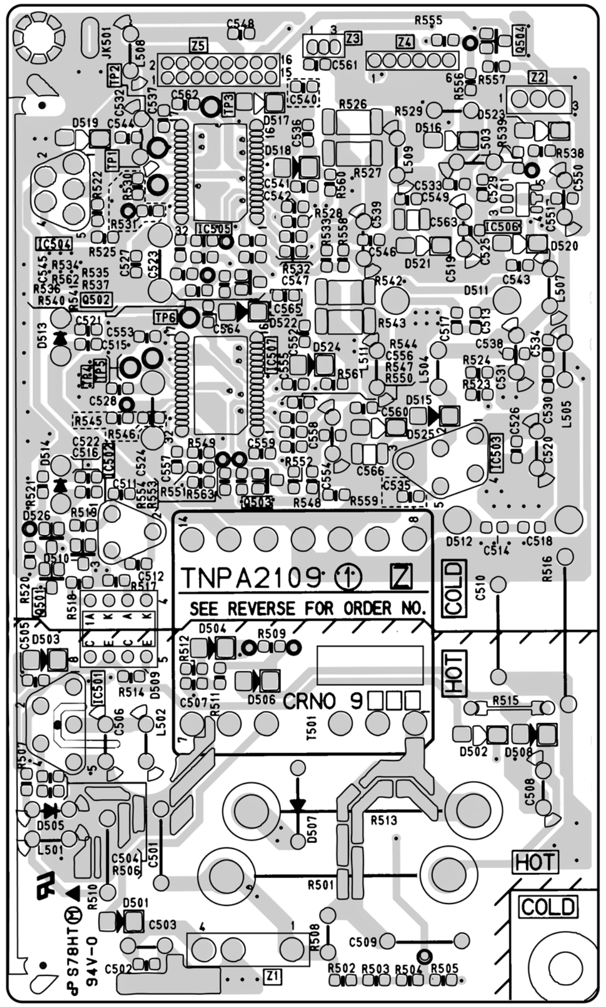


COLD
HOT
C9201
C9203
D9203
D9202
RL9201
L9201
D9204
C9209
C9219
R9207
R9208
R9206
T9201
C9202
R9203
TNPA2108 ① P
ORDER NO
C9220
R9231
L9203
C9229
L9202
C9225
P5
P4
P3
ᵽ S78HT Ⓜ
94V-0

Z-P.C.Board TNPA2109
(Foil Side)

Z-P.C.Board(Foil Side)			
IC		IC9507	C-6
IC9501	B-5	**TRANSISTOR**	
IC9502	B-5	Q9501	B-5
IC9503	C-7	Q9502	C-6
IC9504	C-5	Q9503	B-6
IC9505	C-6	Q9504	D-7
IC9506	C-7		

ADDRESS INFORMATION

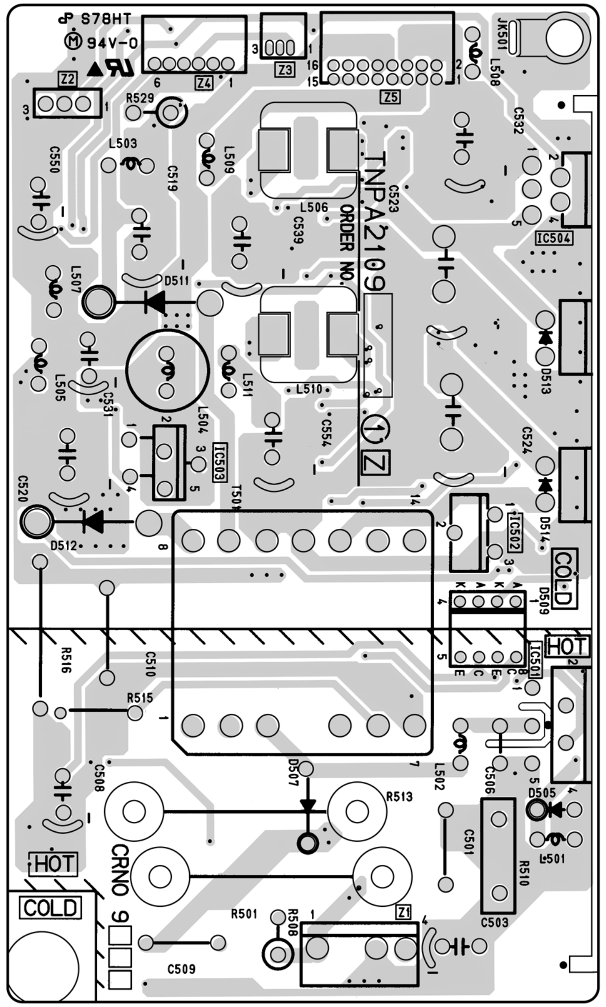


JK501
C548
R555
Z5
Z3
Z4
Z2
TNPA2109 ① Z
SEE REVERSE FOR ORDER NO.
COLD
HOT
CRNO 9
L501
R513
R501
Z1
ᵽ S78HT Ⓜ
94V-0

Z-P.C.Board TNPA2109
(Component Side)

Z-P.C.Board (Component Side)	
IC	
IC9501	B-9
IC9502	B-9
IC9503	C-8
IC9504	C-9

ADDRESS INFORMATION



ᵽ S78HT
Ⓜ 94V-0
JK501
Z2
Z4
Z3
Z5
TNPA2109 ① Z
ORDER NO.
IC504
IC503
IC502
IC501
COLD
HOT
CRNO 9
R513
R501
Z1
C509

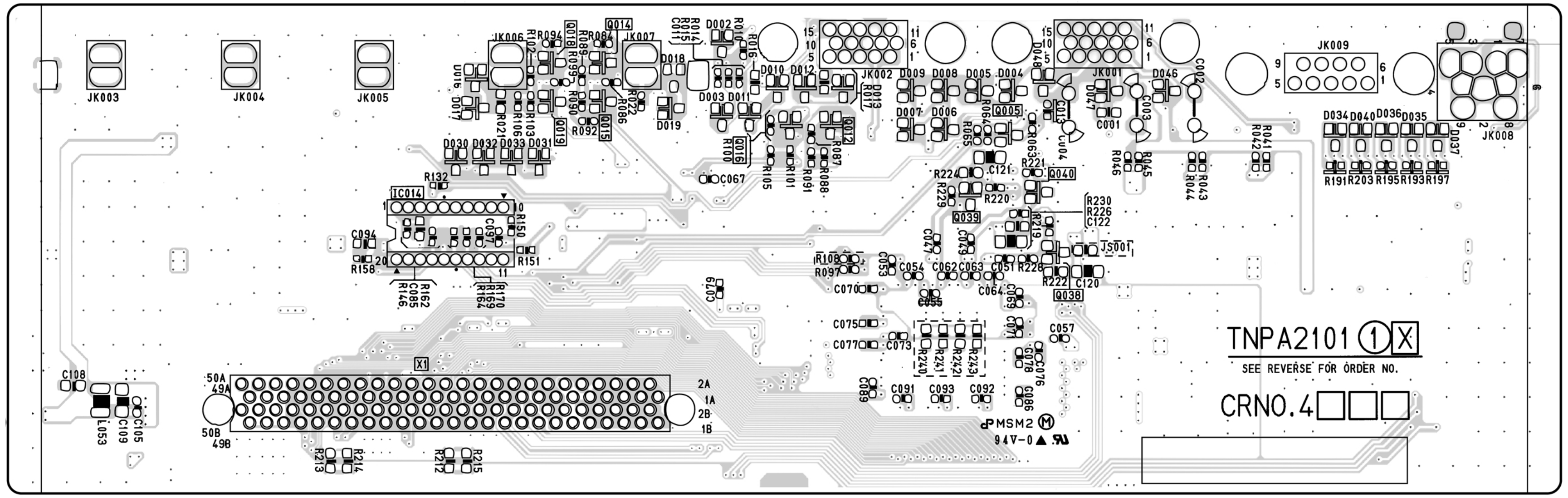
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9

X-P.C.Board TNPA2101 (Foil Side)

X-P.C.Board(Foil Side)			
IC		Q4016	E-4
IC4014	D-2	Q4018	E-3
TRANSISTOR		Q4019	E-3
Q4005	E-4	Q4038	D-5
Q4012	E-4	Q4039	E-4
Q4014	E-3	Q4040	E-4
Q4015	E-3		

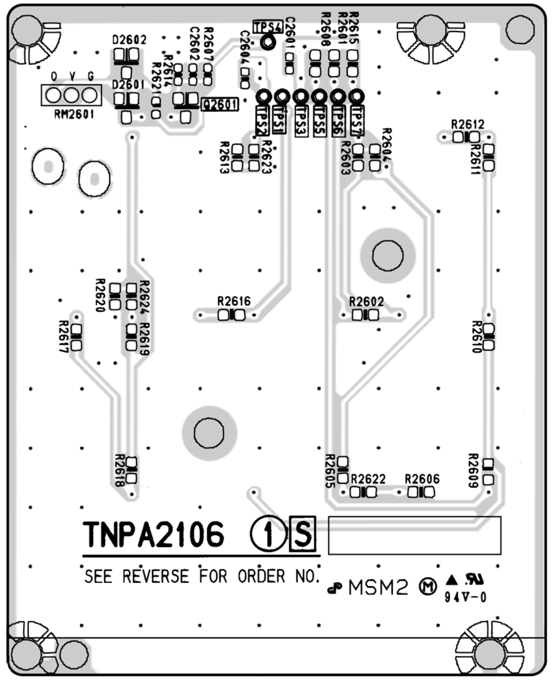
ADDRESS INFORMATION


JK003
JK004
JK005
JK006
JK007
JK002
JK001
JK009
JK008
IC014
TNPA2101 ① X
SEE REVERSE FOR ORDER NO.
CRN0.4
MSM2
94V-0

S-P.C.Board TNPA2106 (Foil Side)

S-P.C.Board(Foil Side)	
TRANSISTOR	
Q2601	E-8

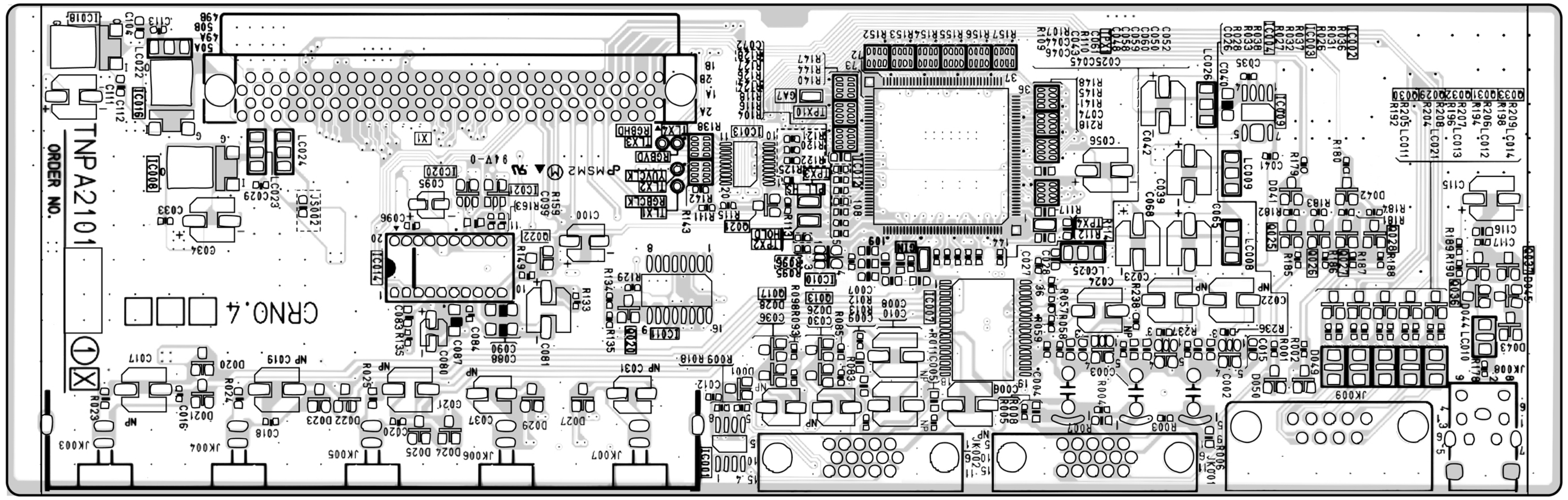
ADDRESS INFORMATION


RM2601
Q2601
TNPA2106 ① S
SEE REVERSE FOR ORDER NO.
MSM2
94V-0

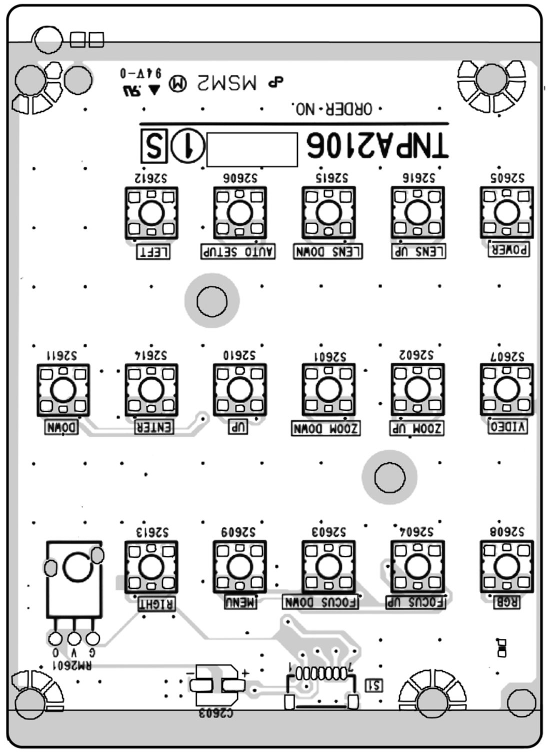
X-P.C.Board TNPA2101 (Component Side)

X-P.C.Board(Component Side)											
IC		IC4009	B-5	IC4018	B-1	Q4022	A-3	Q4031	B-6	TPX2	B-4
IC4001	A-3	IC4010	A-4	IC4020	B-2	Q4025	B-5	Q4032	B-6	TPX3	B-4
IC4002	B-5	IC4011	A-3	IC4021	B-3	Q4026	B-6	Q4033	B-6	TPX4	B-5
IC4003	B-5	IC4012	B-4	TRANSISTOR		Q4027	B-6	Q4036	A-6		
IC4004	B-5	IC4013	B-3	Q4013	A-4	Q4028	B-6	Q4037	A-6		
IC4007	A-4	IC4014	A-2	Q4017	A-4	Q4029	B-6	TP			
IC4008	B-1	IC4016	B-1	Q4020	A-3	Q4030	B-6	TPX1	B-4		

ADDRESS INFORMATION


TNPA2101
ORDER NO.
CRN0.4
① X
JK003
JK004
JK005
JK006
JK007
JK009
JK008
MSM2
94V-0

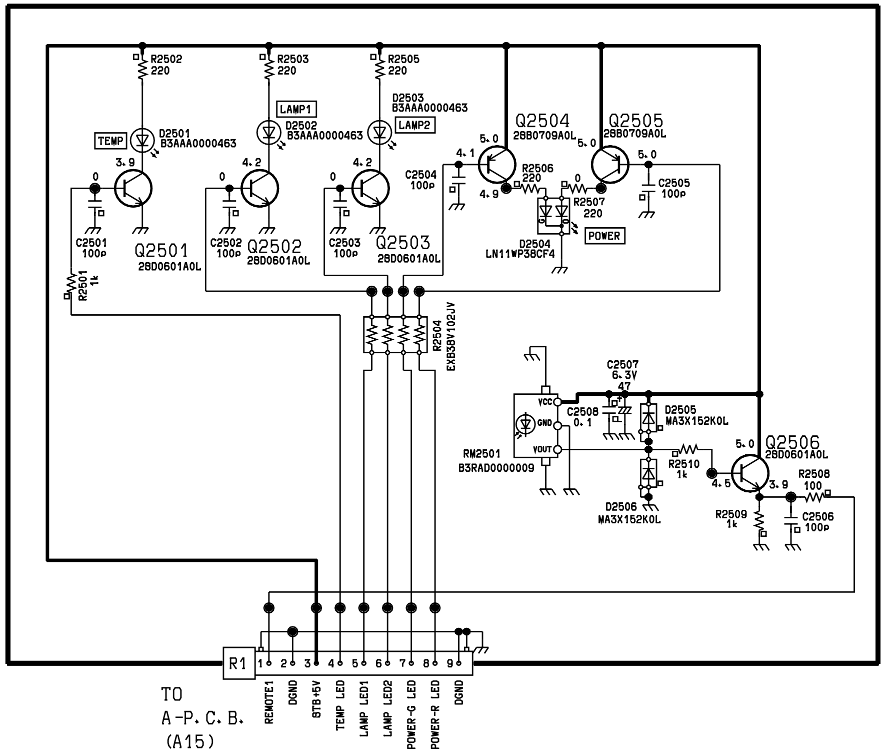
S-P.C.Board TNPA2106 (Component Side)


TNPA2106 ① S
ORDER NO.
MSM2
94V-0
LEFT
AUTO SETUP
LENS DOWN
LENS UP
POWER
DOWN
ENTER
UP
ZOOM DOWN
ZOOM UP
VIDEO
RIGHT
MENU
FOCUS DOWN
FOCUS UP
RGB
RM2601

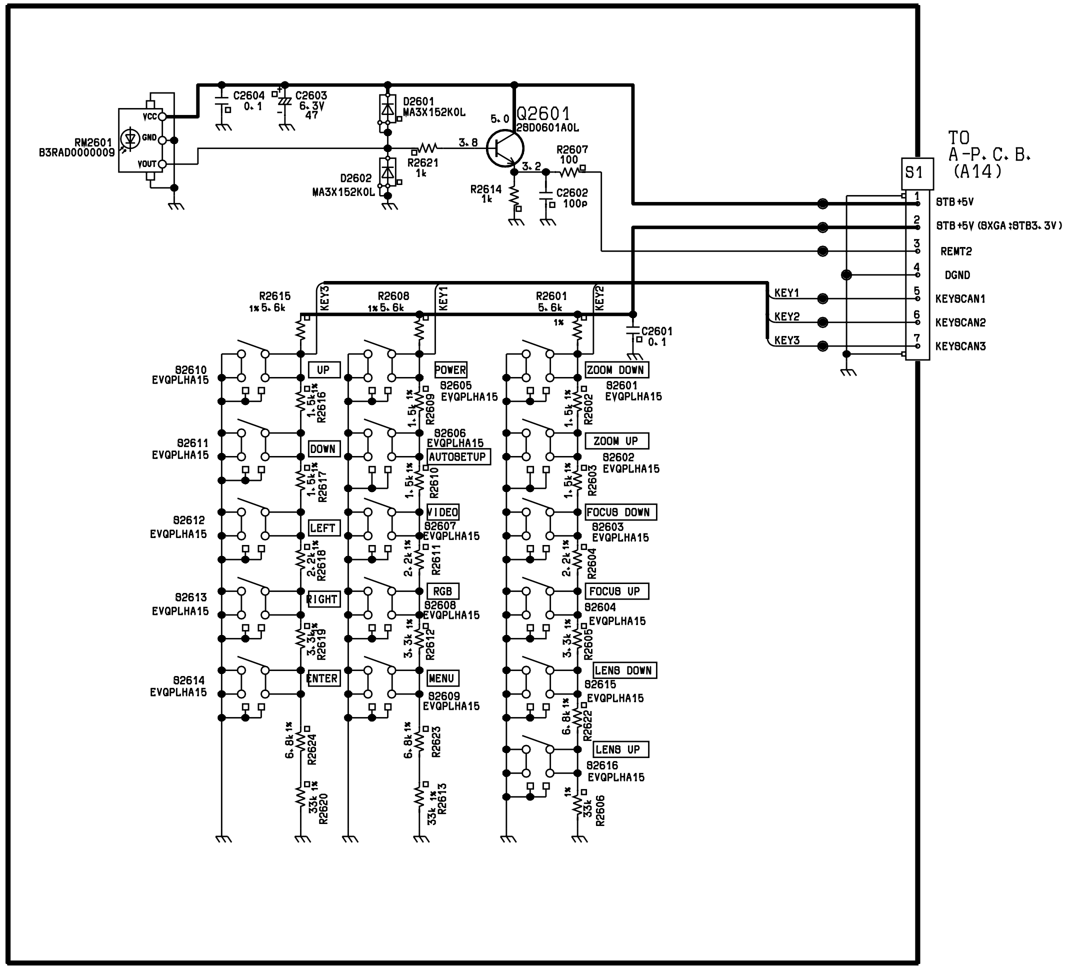
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9

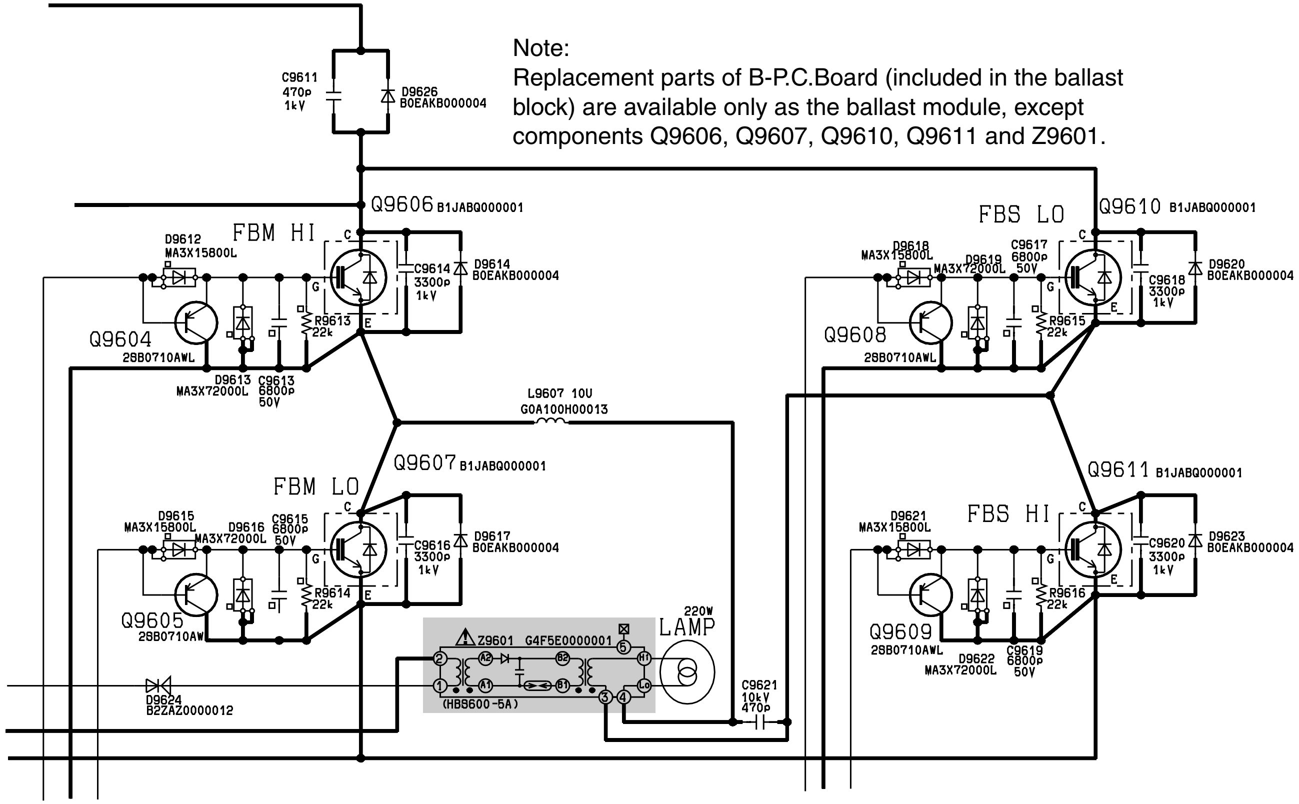
R-P. C. Board TNPA2105


R2502 220
R2503 220
R2505 220
TEMP
D2501 B3AAA0000463
LAMP1
D2502 B3AAA0000463
D2503 B3AAA0000463
LAMP2
Q2504 2SB0709A0L
Q2505 2SB0709A0L
R2506 220
R2507 220
C2504 100p
C2505 100p
D2504 LN11WP38CF4
POWER
Q2501 2SD0601A0L
C2501 100p
R2501 1k
C2502 100p
Q2502 2SD0601A0L
C2503 100p
Q2503 2SD0601A0L
R2504 EXB38V102JV
C2507 6.3V 47
C2508 0.1
D2505 MA3X152K0L
RM2501 B3RAD0000009
VCC
GND
VOUT
R2510 1k
Q2506 2SD0601A0L
R2508 100
C2506 100p
R2509 1k
D2506 MA3X152K0L
R1
TO A-P.C.B. (A15)
REMOTE1
DGND
STB+5V
TEMP LED
LAMP LED1
LAMP LED2
POWER-G LED
POWER-R LED
DGND

S-P. C. Board TNPA2106

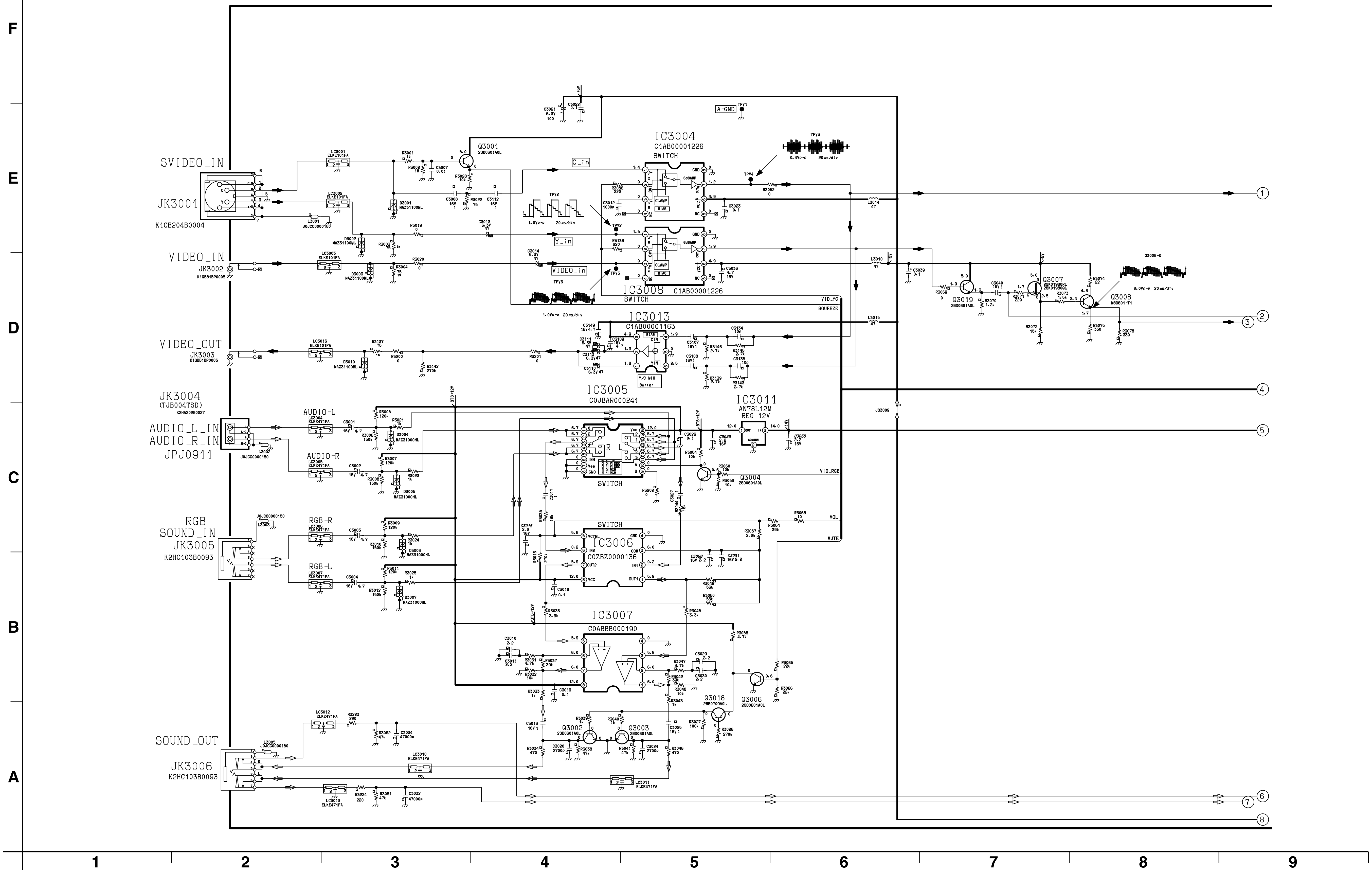

C2604 0.1
C2603 6.3V 47
D2601 MA3X152K0L
Q2601 2SD0601A0L
RM2601 B3RAD0000009
VCC
GND
VOUT
R2621 1k
D2602 MA3X152K0L
R2614 1k
R2607 100
C2602 100p
S1
TO A-P.C.B. (A14)
STB+5V
STB+5V (SXGA:STB3.3V)
REMT2
DGND
KEYSCAN1
KEYSCAN2
KEYSCAN3
KEY1
KEY2
KEY3
R2615 1% 5.6k
R2608 1% 5.6k
R2601 5.6k 1%
C2601 0.1
S2610 EVQPLHA15
UP
S2611 EVQPLHA15
DOWN
S2612 EVQPLHA15
LEFT
S2613 EVQPLHA15
RIGHT
S2614 EVQPLHA15
ENTER
POWER
S2605 EVQPLHA15
S2606 EVQPLHA15
AUTOSETUP
VIDEO
S2607 EVQPLHA15
RGB
S2608 EVQPLHA15
MENU
S2609 EVQPLHA15
ZOOM DOWN
S2601 EVQPLHA15
ZOOM UP
S2602 EVQPLHA15
FOCUS DOWN
S2603 EVQPLHA15
FOCUS UP
S2604 EVQPLHA15
LENS DOWN
S2615 EVQPLHA15
LENS UP
S2616 EVQPLHA15
R2616 1.5k 1%
R2617 1.5k 1%
R2618 2.2k 1%
R2619 3.3k 1%
R2624 6.8k 1%
R2620 33k 1%
R2609 1.5k 1%
R2610 1.5k 1%
R2611 2.2k 1%
R2612 3.3k 1%
R2623 6.8k 1%
R2613 33k 1%
R2602 1.5k 1%
R2603 1.5k 1%
R2604 2.2k 1%
R2605 3.3k 1%
R2622 6.8k 1%
R2606 33k 1%

B-Module TNPA2110 (Prints only a circuit diagram around the components for replacement parts.)

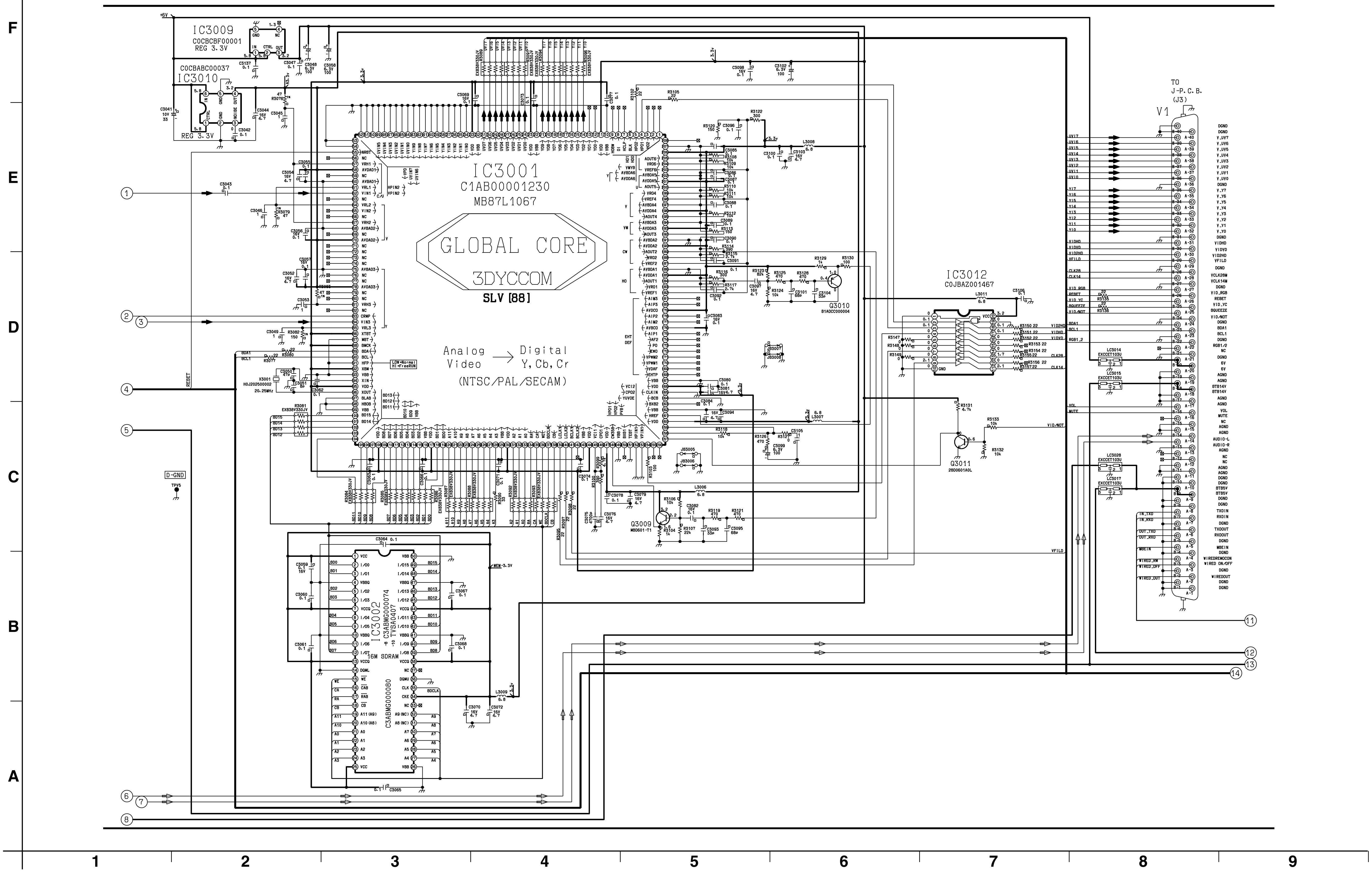

C9611 470p 1kV
D9626 B0EAKB000004
Q9606 B1JABQ000001
FBM HI
D9612 MA3X15800L
C9614 3300p 1kV
D9614 B0EAKB000004
Q9604 2SB0710AWL
R9613 22k
D9613 MA3X72000L
C9613 6800p 50V
L9607 10U G0A100H00013
Q9607 B1JABQ000001
FBM LO
D9615 MA3X15800L
D9616 MA3X72000L
C9615 6800p 50V
C9616 3300p 1kV
D9617 B0EAKB000004
Q9605 2SB0710AW
R9614 22k
Z9601 G4F5E0000001
(HB8600-5A)
220W LAMP
C9621 10kV 470p
D9624 B2ZAZ0000012
FBS LO
Q9610 B1JABQ000001
D9618 MA3X15800L
D9619 MA3X72000L
C9617 6800p 50V
C9618 3300p 1kV
D9620 B0EAKB000004
Q9608 2SB0710AWL
R9615 22k
Q9611 B1JABQ000001
FBS HI
D9621 MA3X15800L
C9620 3300p 1kV
D9623 B0EAKB000004
Q9609 2SB0710AWL
R9616 22k
D9622 MA3X72000L
C9619 6800p 50V
C
G
E

Note:
Replacement parts of B-P.C.Board (included in the ballast block) are available only as the ballast module, except components Q9606, Q9607, Q9610, Q9611 and Z9601.

V-P. C. Board TNPA2100 (1/3)

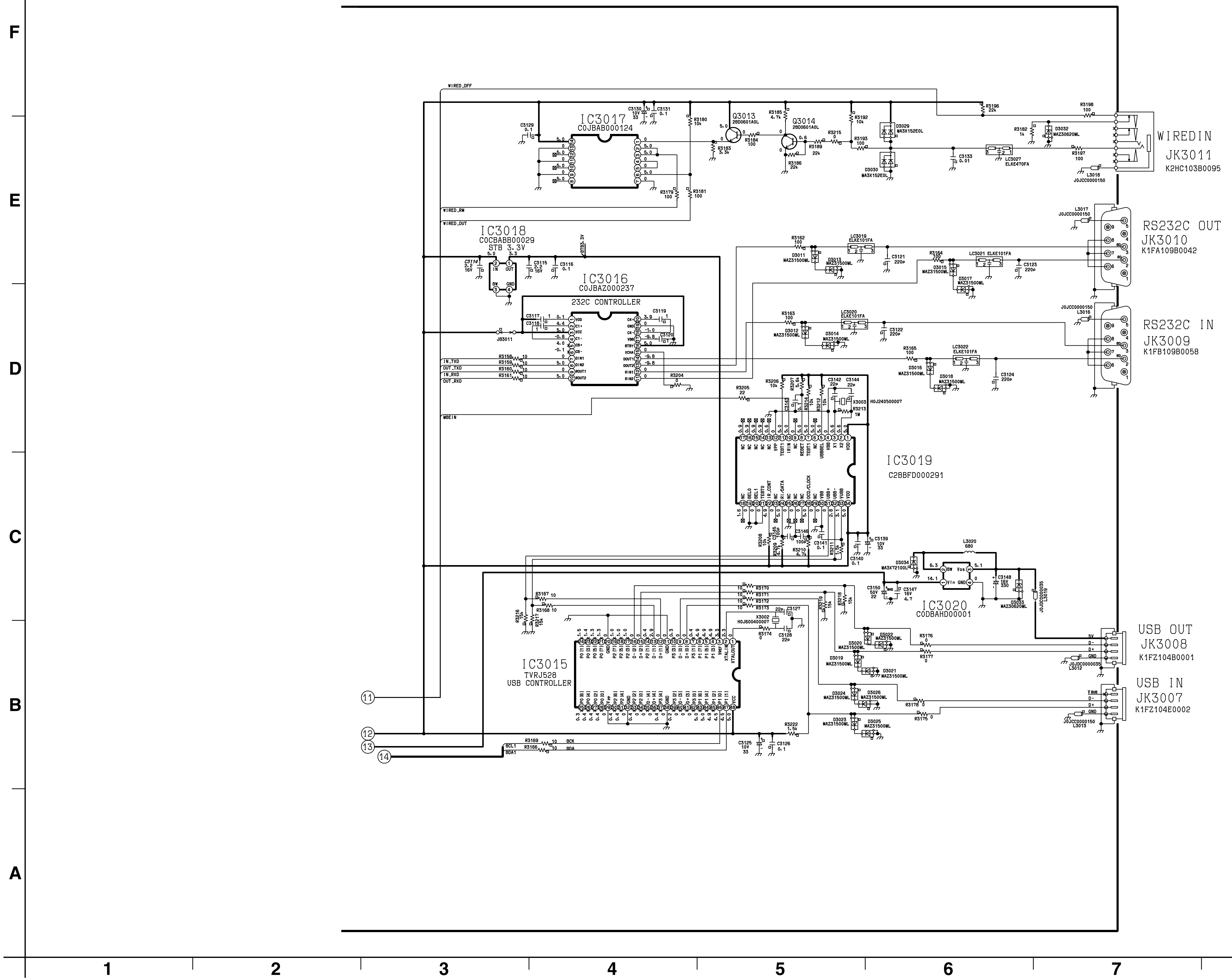

SVIDEO_IN
JK3001
K1CB204B0004
VIDEO_IN
JK3002
K1GB81BP0005
VIDEO_OUT
JK3003
K1GB81BP0005
JK3004
(TJB004TSD)
K2HA202B0027
AUDIO_L_IN
AUDIO_R_IN
JPJ0911
RGB
SOUND_IN
JK3005
K2HC103B0093
SOUND_OUT
JK3006
K2HC103B0093
AUDIO-L
AUDIO-R
RGB-R
RGB-L
Q3001
2SD0601A0L
IC3004
C1AB00001226
SWITCH
IC3008
C1AB00001226
SWITCH
IC3013
C1AB00001163
Y/C MIX
Buffer
IC3005
C0JBAR000241
SWITCH
IC3011
AN78L12M
REG 12V
COMMON
IC3006
C0ZBZ0000136
SWITCH
IC3007
C0ABBB000190
Q3002
2SD0601A0L
Q3003
2SD0601A0L
Q3004
2SD0601A0L
Q3006
2SD0601A0L
Q3018
2SB0709A0L
Q3019
2SD0601A0L
Q3007
2SK01980RL
Q3008
MSD601-T1
A-GND
TPV1
TPV2
TPV3
TPV4
C_in
Y_in
VIDEO_in
1.0Vp-p 20μs/div
0.4Vp-p 20μs/div
2.0Vp-p 20μs/div
VID_YC
SQUEEZE
VID_RGB
VOL
MUTE
JS3009
L3014
L3015
L3010
STB+12V
14V
+9V
①
②
③
④
⑤
⑥
⑦
⑧
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

V-P. C. Board TNPA2100 (2/3)



IC3009
C0CBCBF00001
REG 3.3V
IC3010
C0CBABC00037
REG 3.3V
+6V
IC3001
C1AB00001230
MB87L1067
GLOBAL CORE
3DYCCOM
SLV [88]
Analog Video → Digital Y, Cb, Cr
(NTSC/PAL/SECAM)
LOW=Normal
HI=FreeRUN
X3001
H0J202500002
20.25MHz
IC3002
C3ABMG000074
-8 TVSA0407
-10
16M SDRAM
C3ABMG000080
MEM-3.3V
IC3012
C0JBAZ001467
Q3010
B1ADCC000004
Q3011
2SD0601A0L
Q3009
MSD601-T1
D-GND
TPV5
RESET
TO
J-P.C.B.
(J3)
V1
DGND
DGND
V_UV7
V_UV6
V_UV5
V_UV4
V_UV3
V_UV2
V_UV1
V_UV0
DGND
V_Y7
V_Y6
V_Y5
V_Y4
V_Y3
V_Y2
V_Y1
V_Y0
DGND
VIDHD
VIDVD
VID2HD
VFILD
DGND
VCLK28M
VCLK14M
DGND
VID_RGB
RESET
VID_YC
SQUEEZE
VID/NOT
DGND
SDA1
SCL1
DGND
RGB1/2
NC
DGND
6V
6V
AGND
AGND
STB14V
STB14V
AGND
AGND
VOL
MUTE
NC
AGND
AGND
AUDIO-L
AUDIO-R
AGND
NC
NC
AGND
AGND
DGND
DGND
STB5V
STB5V
DGND
DGND
TXDIN
RXDIN
DGND
TXDOUT
RXDOUT
DGND
WIREDREMOCON
WIRED ON/OFF
DGND
WIREDOUT
DGND
DGND
IN_TXD
IN_RXD
OUT_TXD
OUT_RXD
MBEIN
WIRED_RM
WIRED_OFF
WIRED_OUT
①
②
③
④
⑤
⑥
⑦
⑧
⑪
⑫
⑬
⑭
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

V-P. C. Board TNPA2100 (3/3)



IC3017
C0JBAB000124
Q3013
2SD0601A0L
Q3014
2SD0601A0L
D3029
MA3X152E0L
D3030
MA3X152E0L
D3032
MAZ30620ML
LC3027
ELKE470FA
L3018
J0JCC0000150
WIREDIN
JK3011
K2HC103B0095
WIRED_OFF
WIRED_RW
WIRED_OUT
IC3018
C0CBABB00029
STB 3.3V
IC3016
C0JBAZ000237
232C CONTROLLER
J83011
IN_TXD
OUT_TXD
IN_RXD
OUT_RXD
MBEIN
LC3019
ELKE101FA
LC3021 ELKE101FA
L3017
J0JCC0000150
RS232C OUT
JK3010
K1FA109B0042
LC3020
ELKE101FA
LC3022
ELKE101FA
L3016
J0JCC0000150
RS232C IN
JK3009
K1FB109B0058
IC3019
C2BBFD000291
X3003
H0J240500007
IC3020
C0DBAHD00001
L3020
680
D3034
MA3X72100L
D3033
MAZ30620ML
L3019
J0JDC0000035
IC3015
TVRJ528
USB CONTROLLER
X3002
H0J600400007
USB OUT
JK3008
K1FZ104B0001
L3012
J0JDC0000035
USB IN
JK3007
K1FZ104E0002
L3013
J0JCC0000150
SCL1
SDA1
SCK
SDA
⑪
⑫
⑬
⑭
F
E
D
C
B
A
1
2
3
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5
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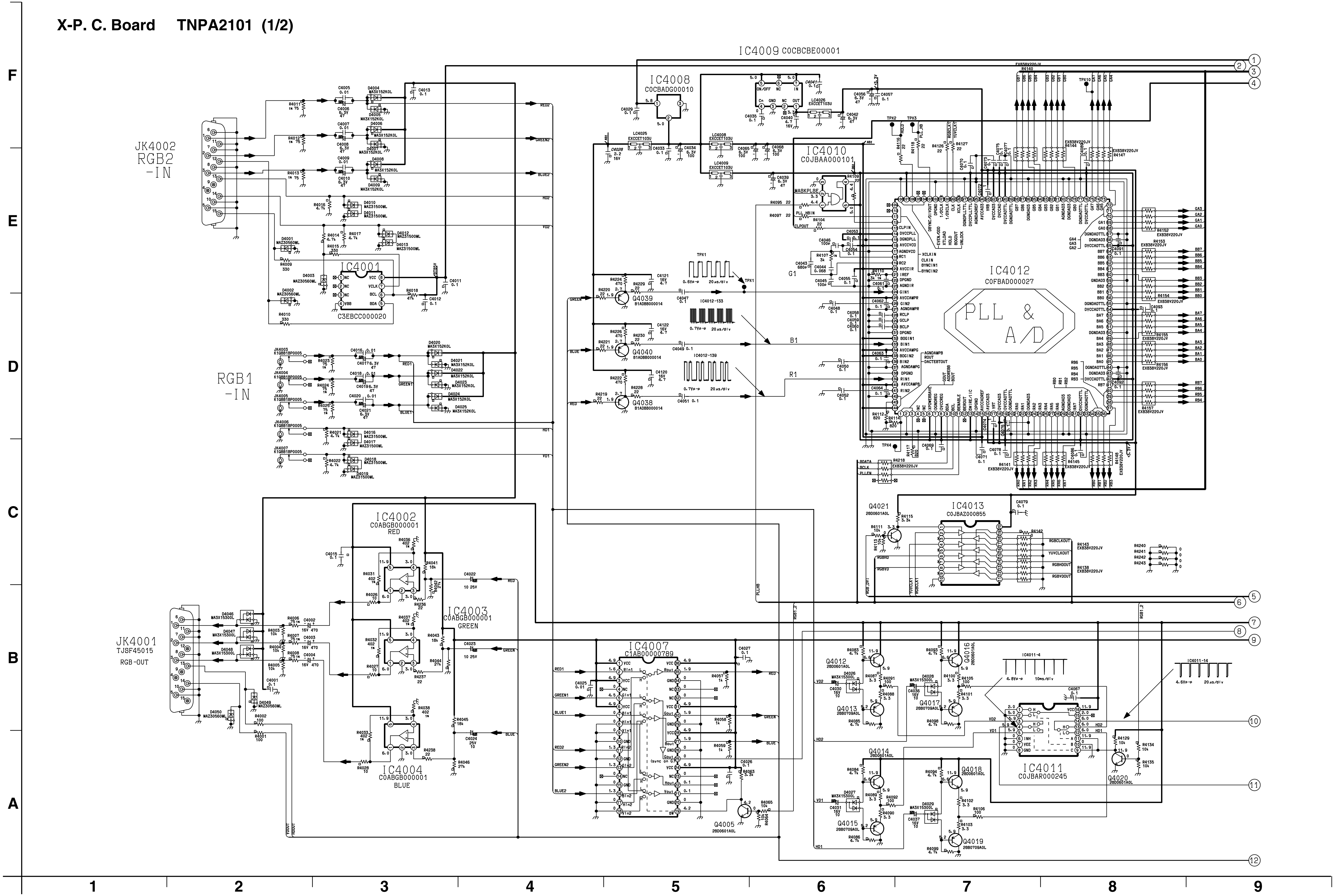
9

X-P. C. Board TNPA2101 (1/2)


IC4009 C0CBCE000001
IC4008 C0CBADG00010
IC4010 C0JBAA000101
IC4012 C0FBAD000027
PLL & A/D
IC4001 C3EBCC000020
IC4013 C0JBAZ000855
IC4002 C0ABGB000001 RED
IC4003 C0ABGB000001 GREEN
IC4004 C0ABGB000001 BLUE
IC4007 C1AB00000789
IC4011 C0JBAR000245
JK4002 RGB2 -IN
RGB1 -IN
JK4001 TJSF45015 RGB-OUT
JK4003 K1GB81BP0005
JK4004 K1GB81BP0005
JK4005 K1GB81BP0005
JK4006 K1GB81BP0005
JK4007 K1GB81BP0005
Q4039 B1ADBB000014
Q4040 B1ADBB000014
Q4038 B1ADBB000014
Q4021 2BD0601A0L
Q4005 2BD0601A0L
Q4012 2BD0601A0L
Q4013 2BB0709A0L
Q4014 2BD0601A0L
Q4015 2BB0709A0L
Q4016 2BD0601A0L
Q4017 2BB0709A0L
Q4018 2BD0601A0L
Q4019 2BB0709A0L
Q4020 2BD0601A0L
TPX1
TPX2
TPX3
TPX4
TPX10
G1
B1
R1
IC4012-133
IC4012-139
IC4011-4
IC4011-14
0.6Vp-p 20 µs/div
0.7Vp-p 20 µs/div
4.8Vp-p 10ms/div
4.6Vp-p 20 µs/div
RED2
GREEN2
BLUE2
HD2
VD2
RED1
GREEN1
BLUE1
HD1
VD1
RED
GREEN
BLUE
RGBCLKOUT
YUVCLKOUT
RGBHDOUT
RGBVDOUT
SDATA
SCLK
PLLEN
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
A
B
C
D
E
F
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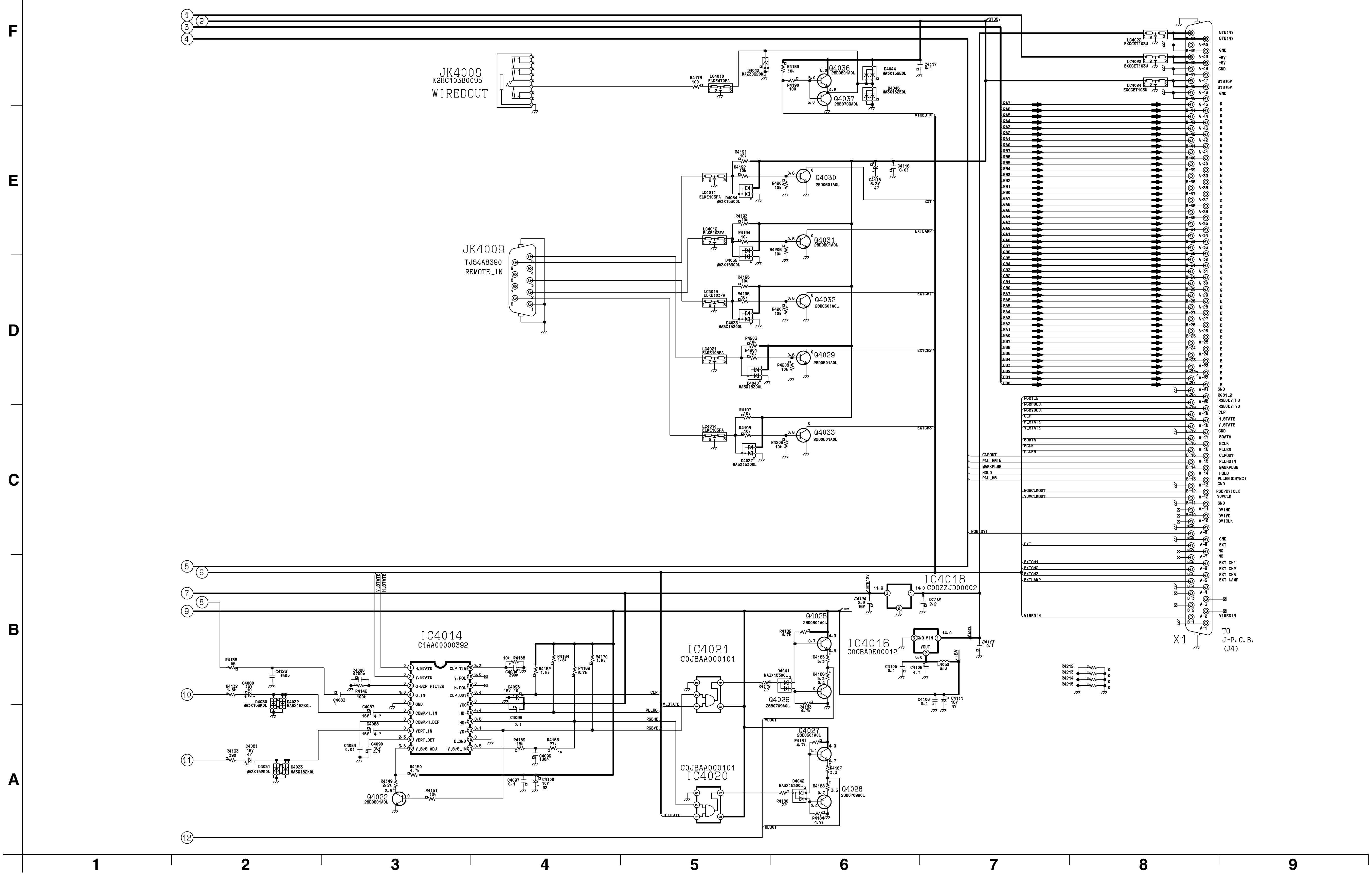
9

X-P. C. Board TNPA2101 (2/2)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
JK4008
K2HC103B0095
WIREDOUT
R4178 100
LC4010 ELKE470FA
D4043 MAZ3062DM
R4189 10k
R4190 100
Q4036 2SD0601A0L
Q4037 2SB0709A0L
D4044 MA3X152E0L
D4045 MA3X152E0L
C4117 0.1
STB5V
WIREDIN
JK4009
TJS4A8390
REMOTE_IN
R4191 10k
R4192 10k
LC4011 ELKE103FA
D4034 MA3X153O0L
R4205 10k
Q4030 2SD0601A0L
C4115 6.3V 47
C4116 0.01
EXT
R4193 10k
R4194 10k
LC4012 ELKE103FA
D4035 MA3X153O0L
R4206 10k
Q4031 2SD0601A0L
EXTLAMP
R4195 10k
R4196 10k
LC4013 ELKE103FA
D4036 MA3X153O0L
R4207 10k
Q4032 2SD0601A0L
EXTCH1
R4203 10k
R4204 10k
LC4021 ELKE103FA
D4040 MA3X153O0L
R4208 10k
Q4029 2SD0601A0L
EXTCH2
R4197 10k
R4198 10k
LC4014 ELKE103FA
D4037 MA3X153O0L
R4209 10k
Q4033 2SD0601A0L
EXTCH3
LC4022 EXCCET103U
LC4023 EXCCET103U
LC4024 EXCCET103U
STB14V
STB14V
GND
+5V
+5V
GND
STB+5V
STB+5V
GND
R
G
B
GND
RGB1_2
RGB/DVIHD
RGB/DVIVD
CLP
H_STATE
V_STATE
GND
SDATA
SCLK
PLLEN
CLPOUT
PLLHBIN
MASKPLSE
HOLD
PLLHB (DSYNC)
GND
RGB/DVICLK
YUVCLK
GND
DVIHD
DVIVD
DVICLK
GND
EXT
NC
NC
EXT CH1
EXT CH2
EXT CH3
EXT LAMP
WIREDIN
X1
TO J-P.C.B. (J4)
RGB/DVI
RGBCLKOUT
YUVCLKOUT
CLPOUT
PLL_HBIN
MASKPLSE
HOLD
PLL_HB
IC4018
C0DZZJD00002
STB12V
C4104 2.2 16V
C4112 2.2
IC4016
C0CBADE00012
C4113 0.1
C4105 0.1
C4109 4.7
L4053 6.8
C4108 0.1
C4111 16V 47
IC4014
C1AA00000392
H_STATE
V_STATE
G-SEP FILTER
G_IN
GND
COMP/H_IN
COMP/H_DEP
VERT_IN
VERT_DET
V_S/G ADJ
CLP_TIM
V_POL
H_POL
CLP_OUT
VCC
HD
HD
VD
D_GND
V_S/G_IN
R4136 56
C4123 150p
R4132 1.8k
C4080 16V 10
D4030 MA3X152K0L
D4032 MA3X152K0L
R4133 390
C4081 16V 47
D4031 MA3X152K0L
D4033 MA3X152K0L
C4085 4700p
R4146 100k
C4083 1
C4087 16V 4.7
C4088 16V 4.7
C4084 0.01
C4090 16V 4.7
R4150 4.7k
R4149 2.2k
Q4022 2SD0601A0L
R4151 18k
R4158 10k
C4094 390p
C4095 16V 10
C4096 0.1
R4162 1.8k
R4164 1.8k
R4169 2.7k
R4170 1.8k
R4159 18k
R4163 27k
C4099 180p
C4097 0.1
C4100 10V 33
CLP
V_STATE
PLLHB
RGBHD
RGBVD
V_STATE
H_STATE
IC4021
C0JBAA000101
IC4020
C0JBAA000101
H_STATE
Q4025 2SD0601A0L
R4182 4.7k
R4185 3.3
D4041 MA3X153O0L
R4179 22
R4186 3.3
R4183 4.7k
Q4026 2SB0709A0L
YDOUT
Q4027 2SD0601A0L
R4181 4.7k
R4187 3.3
D4042 MA3X153O0L
R4180 22
R4188 3.3
R4184 4.7k
Q4028 2SB0709A0L
HDOUT
R4212
R4213
R4214
R4215
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
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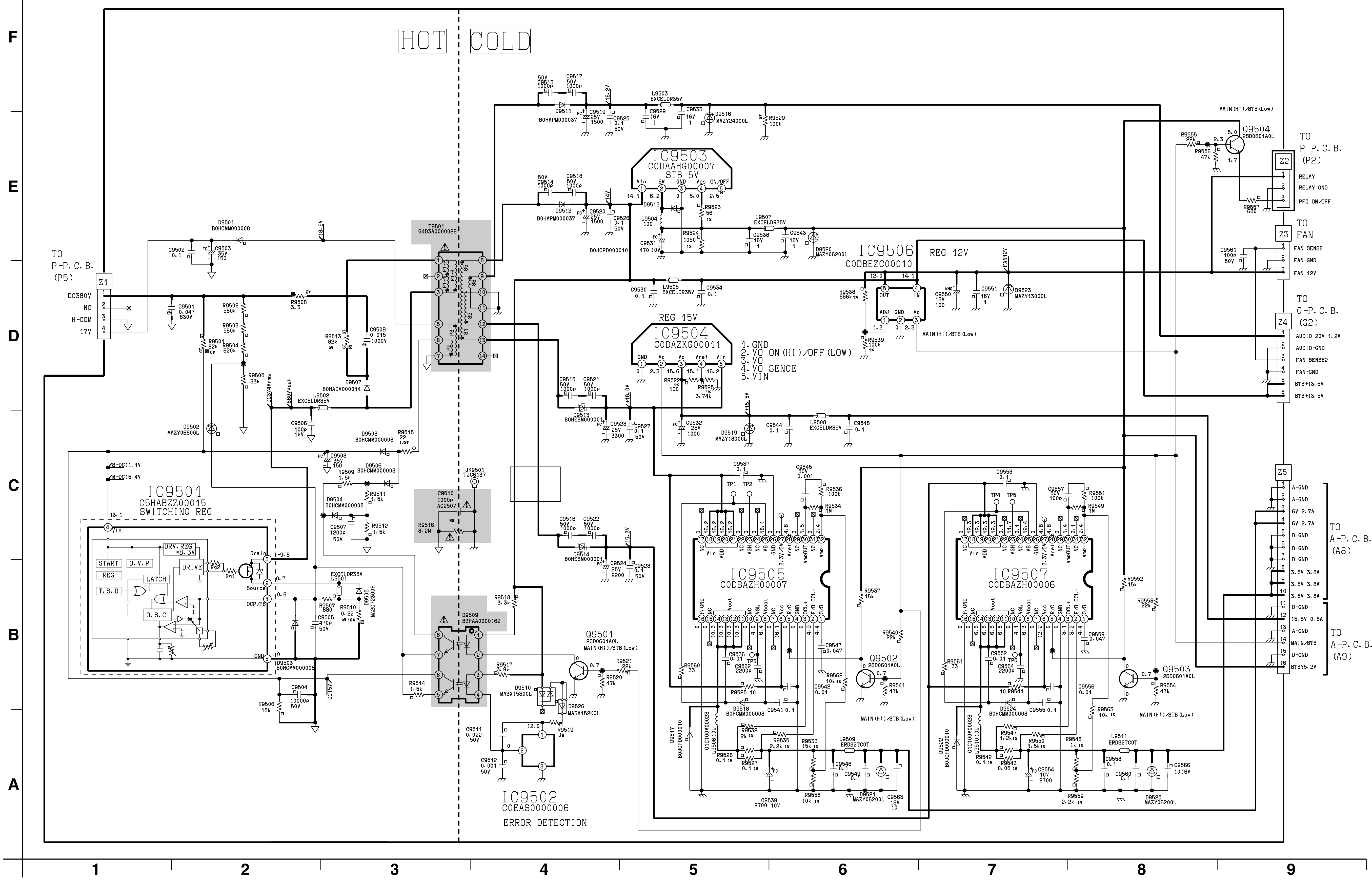
⑫

Z-P. C. Board TNPA2109


HOT
COLD
TO P-P.C.B. (P5)
Z1
DC380V
NC
H-COM
17V
IC9501
C5HABZZ00015
SWITCHING REG
START
O.V.P
REG
LATCH
T.S.D
DRIVE
DRV.REG =8.3V
O.S.C
Drain
Source
OCP/FB
GND
T9501
G4D3A0000029
JK9501
TJC6137
D9509
B3PAA0000162
IC9502
C0EAS0000006
ERROR DETECTION
Q9501
2SD0601A0L
MAIN(H)/STB(Low)
IC9503
C0DAAHG00007
STB 5V
Vin
SW
GND
Vos
ON/OFF
IC9504
C0DAZKG00011
REG 15V
1. GND
2. VO ON(HI)/OFF(LOW)
3. VO
4. VO SENCE
5. VIN
IC9506
C0DBEZC00010
REG 12V
OUT
IN
ADJ
GND
Vc
IC9505
C0DBAZH00007
IC9507
C0DBAZH00006
Q9502
2SD0601A0L
Q9503
2SD0601A0L
Q9504
2SD0601A0L
TO P-P.C.B. (P2)
Z2
RELAY
RELAY GND
PFC ON/OFF
TO FAN
Z3
FAN SENSE
FAN-GND
FAN 12V
TO G-P.C.B. (G2)
Z4
AUDIO 20V 1.2A
AUDIO-GND
FAN SENSE2
FAN-GND
STB+13.5V
STB+13.5V
Z5
A-GND
A-GND
6V 2.7A
6V 2.7A
D-GND
D-GND
D-GND
3.5V 3.8A
3.5V 3.8A
3.5V 3.8A
D-GND
15.5V 0.8A
A-GND
MAIN/STB
D-GND
STBY5.2V
TO A-P.C.B. (A8)
TO A-P.C.B. (A9)
F
E
D
C
B
A
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3
4
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6
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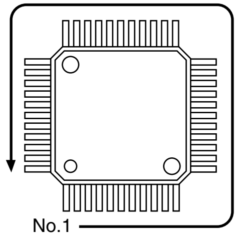
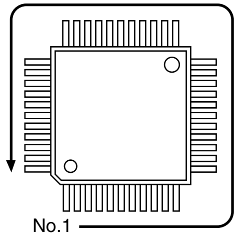
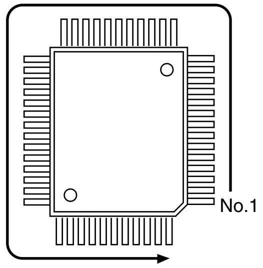


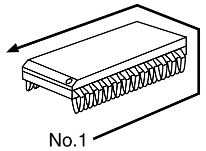
C1AB00001273	44 Pin
C0FBAD000027	144 Pin
MN82860	208 Pin
HD17709AF100	208 Pin



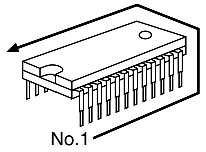
SIL150ACT100	100 Pin
C1AB00001400	80 Pin



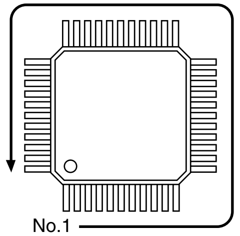
C1AB00001398	128 Pin



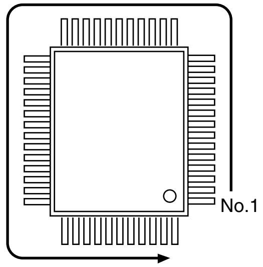
C3BBHG000047	44 Pin



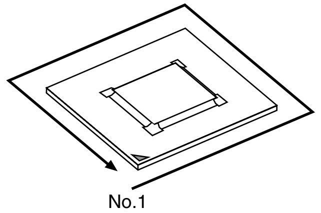
M52036SP	20 Pin



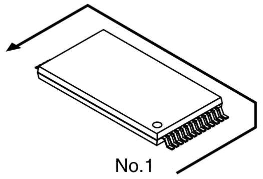
MN8271AT	208 Pin
C1AB00001267	48 Pin
C1AB00001089	256 Pin
C1ZBZ0001774	208 Pin
TVRJ497	168 Pin
C1AB00001230	208 Pin
C1ZBZ0001794	208 Pin



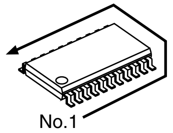
C3HBMJ000004	100 Pin



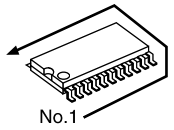
C1AB00001448	100Pin



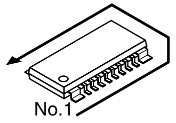
TVRJ428	48 Pin
TVRJ501	48 Pin
TVRJ537	48 Pin



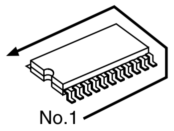
JLC1562BF	16 Pin
PLPT16374AX	48 Pin
PLPT16374A	48 Pin
PLPT16244CA	48 Pin
C3ABMG000080	50 Pin
TVSA0320	44 Pin
M62399FP	20 Pin
74LVC541ADB	20 Pin
C0DBAZH00007	32 Pin
C0DBAZH00006	32 Pin
C0ZBZ0000534	28 Pin
TVSA0500	50 Pin
TVRJ528	48 Pin
UPD4721GS	20 Pin
C0JBAZ000855	20 Pin
MC14053BF	16 Pin
M52755FP	36 Pin
C0JBAZ000855	20 Pin
JLC1562BF	16 Pin
M62393FP	20 Pin
74LVC240ADB	20 Pin
C0JBAZ000855	20 Pin



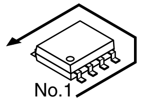
C2BBFD000291	34 Pin



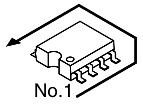
LB1831M	20 Pin



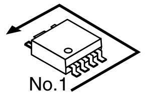
PLPT16374A	20 Pin



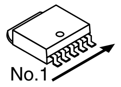
MC33262D	8 Pin
24LC65T-I/SM	8 Pin
M51957BFP-600C	8 Pin
C9ZB00000326	8 Pin
M51957BFP	8 Pin
TC7W04FUTL	8 Pin
24LC21T-I/SN	8 Pin
M5222FP	8 Pin
MM1065ZMR	4 Pin
SN74HC14NS	14 Pin
TC74LCX04FT	14 Pin
C0JBAZ000851	14 Pin



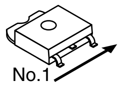
C1AB00001266	8 Pin
BA15218F	8 Pin



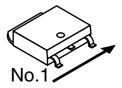
C0CBCBE00001	7 Pin



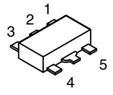
C0DBEZE00002	5 Pin
C0CBCBF00001	5 Pin
PQ07VZ012ZP	5 Pin



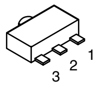
L4931CDT120	3 Pin



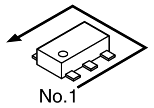
PQ05SZ11	3 Pin
PQ05SZ51	3 Pin
PQ05SZ5U	3 Pin



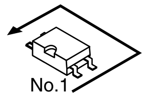
C0DBEZC00010	5 Pin



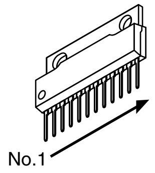
AN78L15M	3 Pin



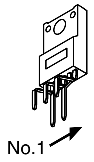
C0CBAAC00040	6 Pin
C0CBADC00032	6 Pin



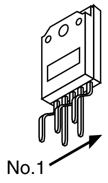
SA101-V1	4 Pin



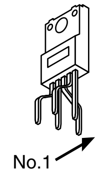
AN7147N	12 Pin



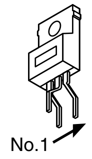
C0DAZKG00011	5 Pin
SI-3050CA	5 Pin



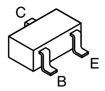
STRF6676LF52	5 Pin



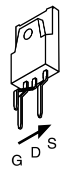
SI-8050JLF1118	5 Pin



SE012N	3 Pin



2SB709A
2SD1030S
2SD601AR
2SB710A



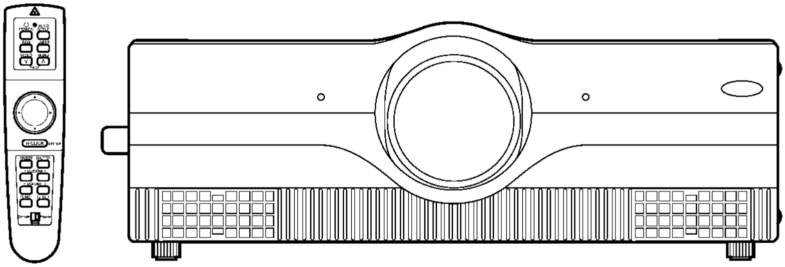
2SK2917

Panasonic

LCD Projector Commercial Use

Operating Instructions

Model No. PT-L6500U
PT-L6600U

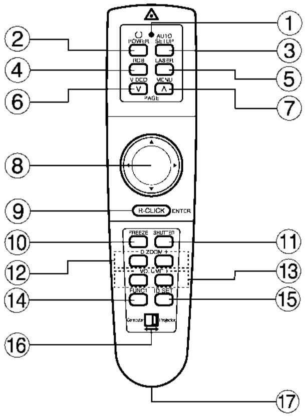


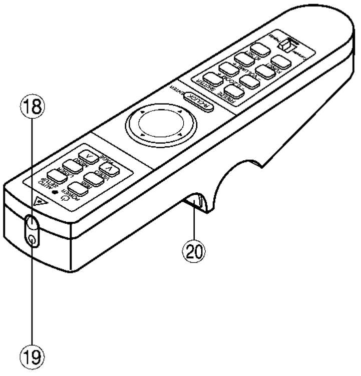
Notes:

- At this service manual, it mentions only the Operating Instructions of PT-L6500U/L6600U as the representative of PT-L6500E/L6600E, PT-L6500UL/L6600UL and PT-L6500EL/L6600EL.
- Because some pages in the user instruction manual are used for this section without change, note that the page numbers shown in sentences of this section are those of the user instruction manual.

Location and function of each part

Remote Control





① **Remote control operating indicator lamp**
The light flashes when any remote control button other than the "LASER" button is pressed.

② **POWER button (page 23)**
Turns the projector ON/OFF when the MAIN POWER switch on the projector is set to " I ".

③ **AUTO SETUP button (page 23)**
Pressing this button automatically corrects picture positioning on the screen. While the auto setup feature is active, the message "AUTO SETUP" appears on the screen.

④ **RGB button (page 23)**
Use to toggle through the RGB1, RGB2, and DVI-D input ports.

⑤ **LASER button (page 15)**
While this button is pressed and held, the remote control activates its laser transmitter to display a laser pointer on the screen.

⑥ **VIDEO button (pages 16 and 23)**
Use to toggle between the Composite Video and S-Video ports. The button acts as the Page Down button if the Mode switch ⑯ is set to the Computer position.

⑦ **MENU button (pages 16, 27 and 28)**
Main Menu display is switched on and off alternately each time this button is pressed. If the menu has multiple pages, this button may be used to view the next or previous menu page. The button acts as the Page Up button if the Mode switch ⑯ is set to the Computer position.

⑧ **Arrow (▲ ▼ ◀ ▶) buttons (pages 16 and 28)**
Use to choose menu items, change settings, or adjust control parameters.

⑨ **ENTER button (pages 16 and 28)**
Press this button to enter your menu selection or to run functions. The button acts as the right mouse button if the Mode switch ⑯ is set to the Computer position.

⑩ **FREEZE button (page 25)**
Press this button to temporarily freeze the image presently on the screen.

⑪ **SHUTTER button (page 25)**
Press this button to temporarily mute/black out both audio and video.

⑫ **D.ZOOM (+/-) buttons (page 25)**
Any portion of the picture can be enlarged.

⑬ **VOLUME (+/-) buttons (page 27)**
Use these buttons to adjust the volume level from the internal speakers or line levels on the AUDIO OUT lines.

⑭ **FUNC1 button (page 35)**
Use to select from the functions listed on the "OPTION2" screen that can be chosen from the MAIN MENU.

⑮ **ID SET button (page 15)**
Use to set the projector ID when multiple PT-L6500U/L6600U projectors are used in the system.

⑯ **Mode switch (Computer/Projector) (page 16)**
When controlling the projector, set this switch to the Projector (right) side. When controlling your PC, set it to the Computer (left) side.

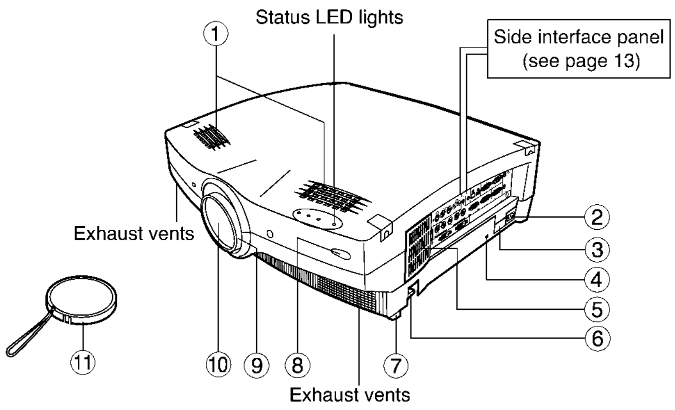
⑰ **Wired Remote Control port (page 17)**
When using wired remote control, connect the remote control to the projector with the accessory wired remote control cable.

⑱ **Remote Control Transmitter Window**
Whenever operating the Remote Control, aim this window to the projector's remote control receiver window.

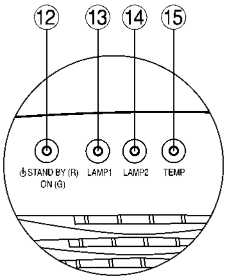
⑲ **Laser Transmitter Window**

⑳ **Click button (page 16)**
The button acts as the left mouse button if the Mode switch ⑯ is set to the Computer position.

Projector < Top · Front and Side >



Status LED lights
(Viewed from the rear side)



① **Speakers**
Speakers deliver a total audio output power of 6 watts (3 + 3 watts each).

② **Line input (AC IN) socket (page 23)**
Connect the accessory line power cord into this receptacle. Do not connect any other cord to this socket.

③ **MAIN POWER switch (page 23)**
Use this switch to turn " I " "O" the commercial line power applied to the projector.

④ **Burglar lock**
Attach a commercial burglar prevention cable (e.g. from Kensington) to this lock port. It is compatible with the Micro Saver Security System from Kensington. This security lock is compatible with the Microsaver Security System from Kensington. Contact details for this company are given below.
Kensington Technology Group ACCO Brands Inc.
2885 Campus Drive San Mateo, CA 94403
Tel (650)572-2700
Fax (650)572-9675
http://www.kensington.com/
http://www.gravis.com/

⑤ **Air filter (page 41)**

⑥ **Leveling button (page 24)**
Use these buttons (one on each side) to level the projector when resting on its feet.

⑦ **Leveling foot (page 24)**
Use in conjunction with ⑥ for the projector's tilt adjustment.
(A leveling foot is provided on each side of the unit.)

⑧ **Remote control receiver window (page 14)**
Receives IR commands transmitted from the remote control.

⑨ **Focus ring (page 23)**
For focus adjustment.
Powered focus adjustment is also available.

⑩ **Projection lens**
Images are projected onto the screen through this lens.

⑪ **Lens cap**
Cap the lens whenever the projector is left unused.

⑫ **Power status light (page 23)**
Lit in red when the projector is in standby mode with MAIN POWER switch set to " I ". Lit in green when the unit is turned ON.

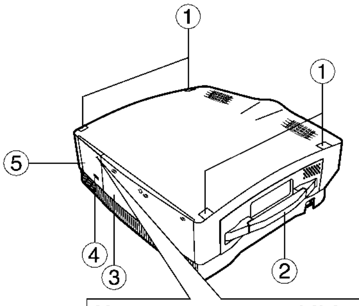
⑬ **Lamp 1 monitor (page 40)**
Lights when lamp unit 1 requires replacement. Flashes if the lamp 1 drive circuit is malfunctioning.

⑭ **Lamp 2 monitor (page 40)**
Lights when lamp unit 2 requires replacement. Flashes if the lamp 2 drive circuit is malfunctioning.

⑮ **Temperature (TEMP) monitor light (page 40)**
Warns of unacceptable internal temperatures. May be either continuously lit or flashing.

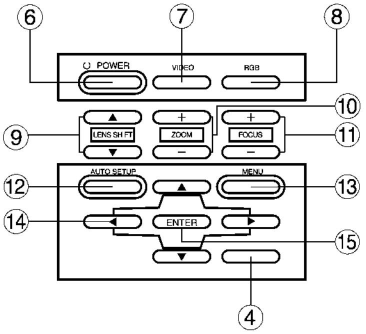
Location and function of each part

Projector < Top · Rear and Side >



How to open panel lid
Press the ▲ mark on the upper right corner of the panel lid until it clicks open.

< Rear control panel >



① **Stack Lid**
When two projectors are to be stacked, use this lid for positioning.

② **Carrying handle**
Pull out this handle to carry the unit.

③ **Lamp unit compartment (page 43)**
Houses the lamp unit.

④ **Rear side remote control receiver window (page 14)**
Receives commands transmitted from the remote control.

⑤ **Control subpanel lid**
Open this lid to access the control subpanel.

⑥ **POWER switch (page 23)**
Turns the unit ON/OFF.

⑦ **VIDEO button (page 23)**
Use to select video signal format from composite video and S-video.

⑧ **RGB button (page 23)**
Use to select RGB signal source from those connected to the RGB1, RGB2 and DVI ports.

⑨ **LENS SHIFT buttons (page 24)**
Pressing the ▲ or ▼ button tilts the projection lens to move the picture on the screen up or down accordingly.

⑩ **ZOOM buttons (page 23)**
Adjust the picture size on the screen with the " + " or " – " buttons.

⑪ **FOCUS buttons (page 23)**
Adjust focus with the " + " or " – " buttons.

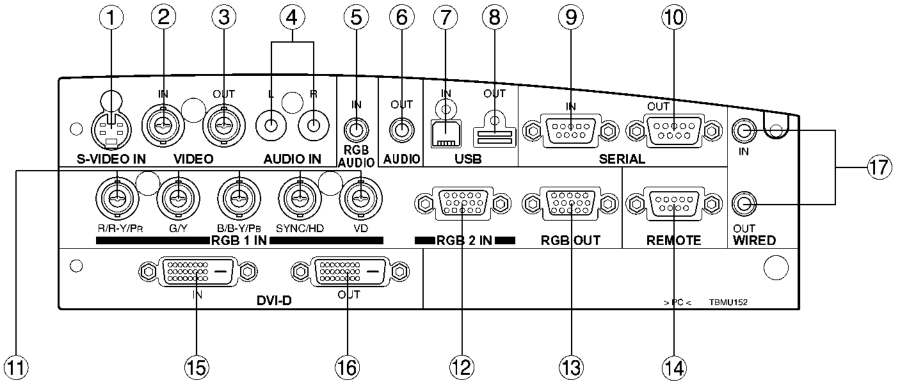
⑫ **AUTO SETUP button (page 23)**
Pressing this button automatically corrects picture positioning on the screen. While the Auto setup feature is active, the message "AUTO SETUP" appears on the screen.

⑬ **MENU button (pages 27 and 28)**
Main Menu display is switched on and off alternately each time this button is pressed. If the menu has multiple pages, this button can be used to view the next or previous menu page.

⑭ **ARROW (▲ ▼ ◀ ▶) buttons (page 28)**
Use to choose menu items, change settings, or adjust control parameters.

⑮ **ENTER button (page 28)**
Press this button to enter your menu selection or to run functions.

< Interface panel >



① **S-VIDEO IN port (pages 19, 20, and 33)**
Connect an S-video signal source to this port. Depend on input signal, screen aspect will automatically change 16:9 or 4:3.

② **VIDEO IN port (pages 20 and 22)**
Connect a composite video signal source to this port. (BNC)

③ **VIDEO OUT port (pages 20 and 22)**
Composite video signal appears at this port. (BNC)

④ **AUDIO IN L-R jacks (page 20)**
Only a single pair of audio inputs is available. Change connections to these jacks according to your choice of video source from composite and S-video (RCA jacks).

⑤ **RGB AUDIO IN jack (pages 20 and 21)**
Only a single pair of audio inputs is available. Change connections to these jacks according to your choice of video source from RGB1, RGB2, and DVI-D (M3 jacks).

⑥ **AUDIO OUT jack (page 20)**
The audio signals applied to the AUDIO IN or RGB AUDIO IN jacks of this unit appear at this jack. Once a cable is plugged into this jack, the signal lines to the internal speakers are cut off. (M3 jack)

⑦ **USB IN ports (pages 16, 21 and 38)**
The remote control can be used as your PC mouse by connecting the projector to your PC with the supplied USB cable. (4-pin square connector)

⑧ **USB OUT ports**
The control ports on two or more projectors can be connected to each other for interlocked control operations. (Type B)

⑨ **SERIAL IN port (pages 20, 21, 22 and 37)**
Use the RS-232C serial port as an alternative interface for controlling the projector from your PC. (D-SUB 9 pin)

⑩ **SERIAL OUT port (pages 21 and 22)**
The signal applied to the serial input port appears at this port (9-pin D-sub female connector).

⑪ **RGB1 (YPBPR) input ports (pages 20, 21 and 22)**
Apply RGB or YPbPr video to these ports. (BNC)

⑫ **RGB2 (YPBPR) IN port (page 21)**
RGB video input port. (D-SUB 15 pin)

⑬ **RGB OUT port (pages 21 and 22)**
The signals applied to RGB1 or RGB2 input ports appear at this port (15-pin D-sub female connector).

⑭ **REMOTE port (page 39)**
This port may be used to control the projector from the Remote Control set up in Wired mode. (9-pin D-sub female connector)

⑮ **DVI-D IN port (pages 19 and 21)**
DVI-D signals are applied to this port. (24-pin DVI connector)

⑯ **DVI-D OUT port (page 21)**
The signal applied to the DVI-D input port appears at this port (24-pin DVI connector).

⑰ **WIRED IN/OUT ports (page 17)**
Use to connect multiple PT-L6500U/L6600U projectors in a daisy chain to simultaneously control them from a single wired remote control. (M3 jack)

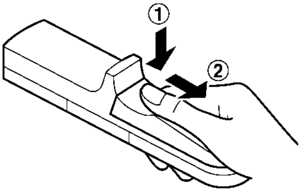
Using the Remote control unit

■ Loading batteries

When loading batteries into the battery compartment of the remote control, make sure that their polarities are correct.

1. Open battery compartment lid.

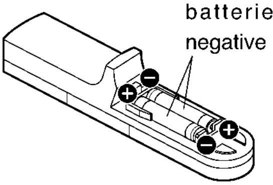
Open lid in the order of steps ① and ②.



2. Insert the batteries

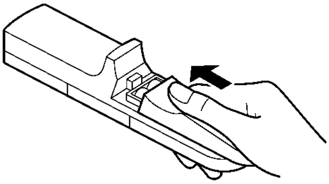
Into battery compartment, with their polarities orientated as indicated (⊕/⊖) in the compartment.

Accessory type-AAA dry batteries (insert the negative side first).



3. Close battery compartment lid.

Replace the battery compartment lid over the compartment and slide until it clicks.



Caution

- Exercise care not to drop the remote control on hard flooring.
- Exercise care not to spill water or any other liquid on the remote control.
- Do not use Ni-Cd batteries with this remote control.

■ Effective control range

The remote control should normally be aimed at either the front or rear remote control receiver window on the projector (fig. 1). Otherwise it may also be aimed at the screen, which will reflect commands back to the projector's front receiver window as illustrated in figure 2.

The effective control range is approx. 7 meters (23 feet) immediately in front of the receiver windows.

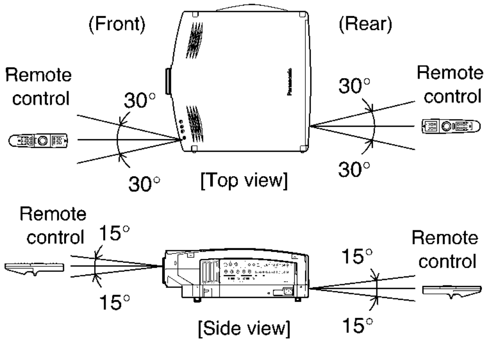

(Front)
(Rear)
Remote control
30°
30°
Remote control
30°
[Top view]
30°
Remote control
15°
Remote control
15°
15°
[Side view]
15°

fig. 1

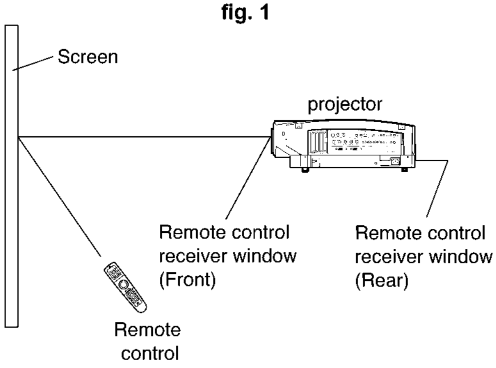

Screen
projector
Remote control receiver window (Front)
Remote control receiver window (Rear)
Remote control

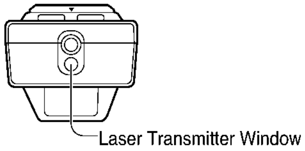
fig. 2

Note

- When the remote control is aimed at the screen, the effective control range may be reduced due to the optical loss of the screen.
- The remote control may not function properly if an object is in the light path.
- The remote control receiver may not function properly in intense ambient light. Carefully site the projector so its remote control receiver windows will not be directly exposed to intense light.

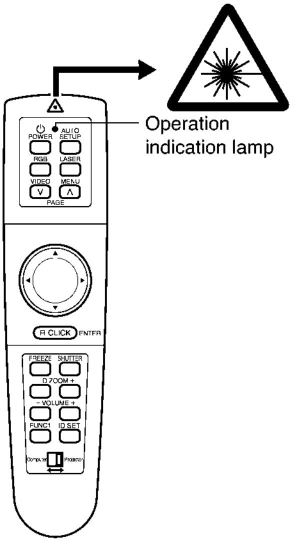
■ Using laser pointer

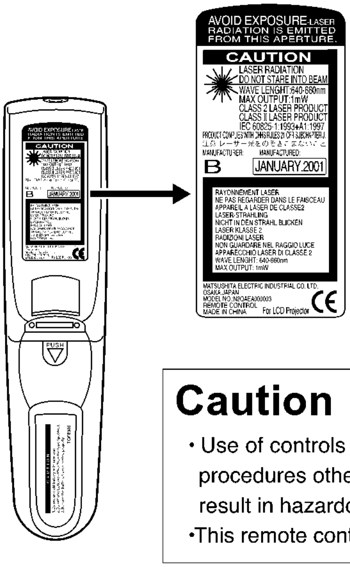
The remote control contains a laser source that can appear as a colored spot on the screen which you can use as a pointer. The laser beam is activated while the “LASER” button is pressed and held.



Warning

DO NOT STARE INTO THE LASER BEAM OR AIM IT AT ANY PERSON'S EYE. LASER RADIATION CAN CAUSE SERIOUS INJURY TO THE HUMAN EYE.





AVOID EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE.

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
WAVE LENGHT:640-660nm
MAX OUTPUT:1mW
CLASS 2 LASER PRODUCT
CLASS II LASER PRODUCT
IEC 60825-1:1993+A1:1997
PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J.
注意 レーザー光をのぞきこまないこと
MANUFACTURER: B
MANUFACTURED: JANUARY.2001

RAYONNEMENT LASER
NE PAS REGARDER DANS LE FAISCEAU
APPAREIL A LASER DE CLASSE2
LASER-STRAHLING
NICHT IN DEN STRAHL BLICKEN
LASER KLASSE 2
RADIZIONI LASER
NON GUARDARE NEL RAGGIO LUCE
APPARECCHIO LASER DI CLASSE 2
WAVE LENGHT: 640-660nm
MAX OUTPUT: 1mW

MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD.
OSAKA JAPAN
MODEL NO.:N2QAEA000003
REMOTE CONTROL
MADE IN CHINA
For LCD Projector

Laser Specifications:

Wavelength: 640 to 660 nm
Output power: 1 mW (Class II)

Caution

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- This remote control unit cannot be repaired.

■ Setting projector IDs for remote control

When controlling multiple projectors individually or simultaneously with a single remote control, projector IDs must be set into the remote control as described in the following steps:

1. Press the “ID SET” button on remote control.

ID number “ALL” will be displayed on the OSD.

2. Press and hold the “ID SET” button for more than 2 seconds.

The ID number will change into “1”. The “ID SET” button will now toggle through ID numbers “2”, “3”, “ALL”, “1”, and so on each time it is subsequently pressed.

3. Select the ID number you wish and then press the “ENTER” button.

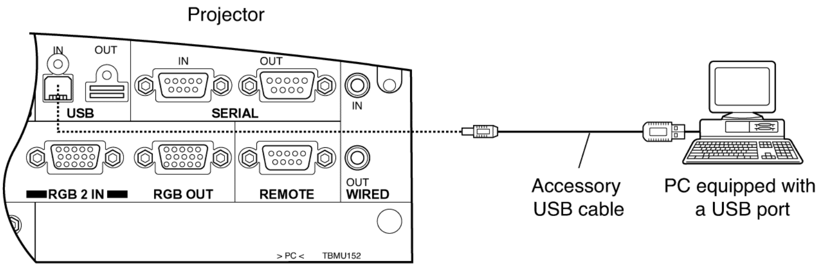
Note

- The projector ID number in the remote control is set to “ALL” by default. It is therefore not necessary to set a projector ID number when only one projector is used.
- The projector can be turned ON/OFF from the remote control only if the projector ID is set in the remote control. For more details on projector ID setting, see page 36.

Using the Remote control unit

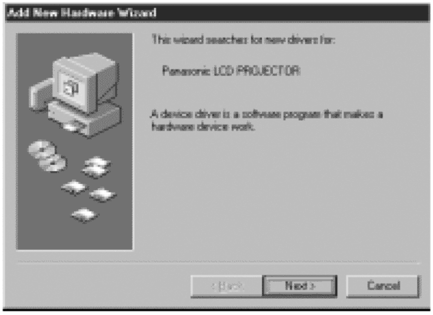
■ Using the remote control as a PC mouse

You can use the remote control as your PC mouse. Set the Mode (Projector/Computer) switch on the remote control to Computer and connect the projector's USB port to your PC counterpart with the accessory USB cable.


Projector
IN
OUT
USB
IN
OUT
SERIAL
IN
RGB 2 IN
RGB OUT
REMOTE
OUT
WIRED
> PC <
TBMU152
Accessory USB cable
PC equipped with a USB port

- When your PC is attached to the projector for the first time, the “new hardware wizard” will launch automatically. When USB cable connects for the first time between projector and PC, the following massage appear from PC. The reason that the driver not installed, therfore press “NEXT” button continuously and finally. Press “Finish”.

The following is in the case of Windows

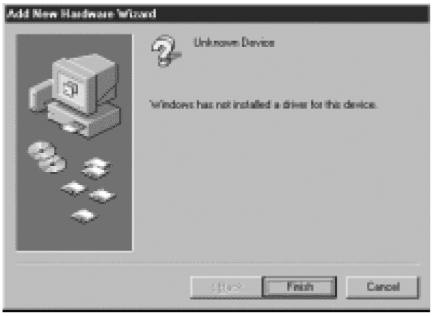

Add New Hardware Wizard

This wizard searches for new drivers for:

Panasonic LCD PROJECTOR

A device driver is a software program that makes a hardware device work.

< Back
Next >
Cancel


Add New Hardware Wizard

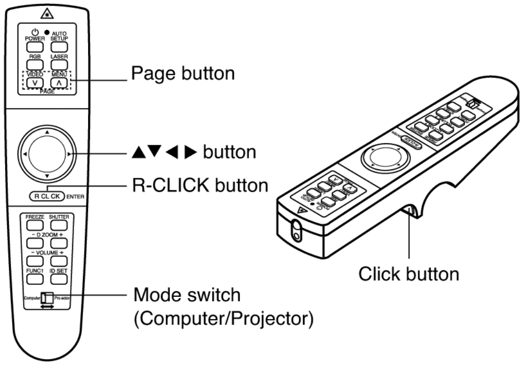
Unknown Device

Windows has not installed a driver for this device.

< Back
Finish
Cancel

Note

- If you click “Cancel”, the “new hardware wizard” launches each time your PC is connected to the projector.


POWER
AUTO SETUP
RGB
LASER
VIDEO
MENU
PAGE
R-CLICK
ENTER
FREEZE
SHUTTER
D ZOOM
VOLUME
FUNC1
ID SET
Computer
Projector
Page button
▲▼◀▶ button
R-CLICK button
Click button
Mode switch (Computer/Projector)

Mode switch (Computer/Projector)

Mode switch is set to the Computer position.

- **Page button**

  Λ: Functions as the Page Up button on your PC keyboard.

  V: Functions as the Page Down button on your PC keyboard.

- **Arrow (▲ ▼ ◀ ▶) button**

  These buttons functions as the cursor control buttons on your PC.

- **R-CLICK button**

  This button functions as the right button on your PC mouse.

- **Click button**

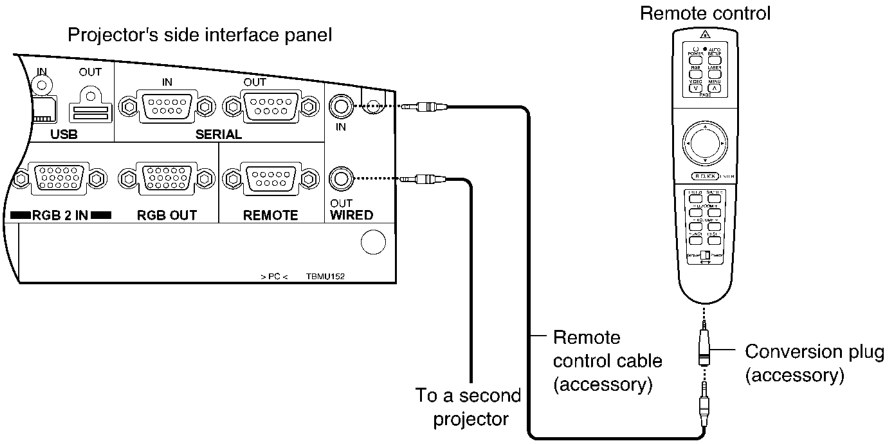
  This button functions as the left button on your PC mouse.

Note

- The optional wireless receiver (Model ET-PMRC1) is needed for a PC not equipped with a USB port.

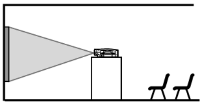
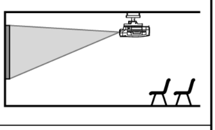
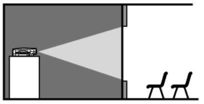
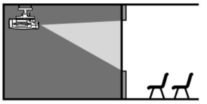
■ Using the remote control in wired mode

Two or more projectors can be controlled from a single Remote Control by connecting the Remote Control to the projectors with the accessory Wired Remote Control Cable. The wired remote control is particularly useful if the projector is sited in a place where it is exposed to intense ambient light or if an object blocks the path of IR light from the Remote Control.


Remote control
Projector's side interface panel
IN
OUT
USB
IN
OUT
SERIAL
IN
RGB 2 IN
RGB OUT
REMOTE
OUT
WIRED
> PC <
TBMU152
Remote control cable (accessory)
Conversion plug (accessory)
To a second projector

■ Projection Schemes

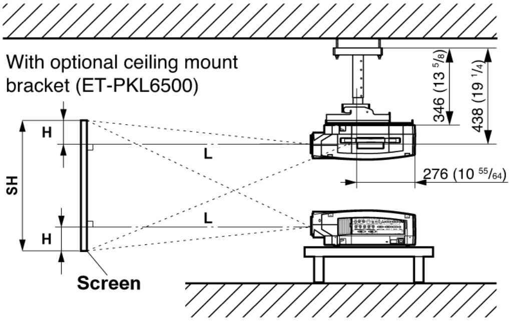
Any of the following four projection schemes can be used with the PT-L6500U/L6600U projector depending on user's needs or viewing conditions. Use “OPTION 1” menu (chosen from the MAIN MENU) to choose the appropriate projection scheme (see page 34).

		Projection Scheme 2	
		Table standing	Ceiling mount
Projection Scheme 1	Front projection	 (Default position)	
	Rear projection		

■ Installation Geometry

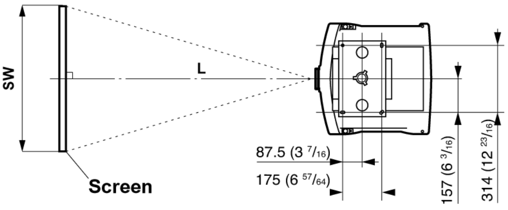
After the projector is roughly positioned, picture size and vertical picture positioning can be finely adjusted with the powered zoom lens and lens tilt mechanism.

Side view



L: Projection distance
SH: Image height
SW: Image width
H: Distance from center of lens to bottom edge of projected image.

Top view



[unit : mm]

■ Projection Distances

Unit : m ( ) : inch [ ] : foot

Screen Size (4 : 3)			Projection distance: L		Height position: H
Diagonal length	Height (SH)	Width (SW)	Wide (LW)	Telephoto (LT)	
0.76 (30")	0.46 [1'6"]	0.61 [2']	— —	1.4 [4'7"]	0.02 to 0.22 (7/8 to 8 21/32)
1.02 (40")	0.61 [2']	0.81 [2'8"]	1.4 [4'7"]	1.9 [6'2"]	0.03 to 0.30 (1 3/16 to 11 13/16)
1.27 (50")	0.76 [2'6"]	1.02 [3'4"]	1.8 [5'11"]	2.4 [7'11"]	0.04 to 0.38 (1 9/16 to 14 61/64)
1.52 (60")	0.91 [3']	1.22 [4']	2.1 [6'11"]	2.9 [9'6"]	0.05 to 0.45 (1 49/64 to 17 23/32)
2.03 (80")	1.22 [4']	1.63 [5'4"]	2.9 [9'6"]	3.9 [12'10"]	0.06 to 0.60 (2 23/64 to 23 10/16)
2.54 (100")	1.52 [5']	2.03 [6'8"]	3.6 [11'10"]	4.9 [16'8"]	0.08 to 0.76 (2 63/64 to 29 59/64)
3.05 (120")	1.83 [6']	2.44 [8']	4.3 [14'1"]	5.9 [19'5"]	0.09 to 0.91 (3 37/64 to 35 53/64)
3.56 (140")	2.13 [7']	2.84 [9'4"]	5.1 [16'8"]	6.9 [22'7"]	0.11 to 1.06 (4 11/64 to 41 47/64)
4.06 (160")	2.44 [8']	3.25 [10'8"]	5.8 [19']	7.9 [25'11"]	0.12 to 1.21 (4 49/64 to 47 41/64)
4.57 (180")	2.75 [9']	3.66 [12']	6.6 [21'8"]	8.9 [29'2"]	0.14 to 1.37 (5 25/64 to 53 15/16)
5.08 (200")	3.05 [10']	4.06 [13'4"]	7.3 [24']	9.9 [32'6"]	0.15 to 1.52 (5 63/64 to 59 27/32)
5.51 (220")	3.35 [11']	4.47 [14'8"]	8.1 [24'7"]	10.9 [35'10"]	0.17 to 1.67 (6 9/16 to 65 3/4)
6.10 (240")	3.66 [12']	4.88 [16']	8.8 [28'11"]	11.9 [39']	0.18 to 1.82 (7 11/64 to 71 21/32)
6.60 (260")	3.96 [13']	5.28 [17'4"]	9.5 [31'2"]	12.9 [42'4"]	0.20 to 1.98 (7 51/64 to 77 61/64)
7.11 (280")	4.27 [14']	5.69 [18'8"]	10.3 [33'10"]	13.9 [45'7"]	0.21 to 2.13 (8 25/64 to 83 55/64)
7.62 (300")	4.57 [15']	6.10 [20']	11.0 [36'1"]	14.9 [48'11"]	0.23 to 2.28 (8 63/64 to 89 49/64)

Setting-up dimensions which are not given in the above table can be calculated using the formulas below.
If the screen size (diagonal) is SD, then the following formulas is first used to obtain the screen width (SW).

$$SW = (SD \times 0.0254) \times 4 \div 5$$ (SD unit is inches)

The value for SW obtained above can then be used with the following function to calculate the projection distance for the wide lens position (LW) and the projection distance for the telephoto lens position (LT).

$$LW = 1.831 \times SW - 0.071$$

$$LW = 2.449 \times SW - 0.066$$

For 16 : 9 aspect rations, the following formal can be used to calculate the screen width (SW).

$$SW = (SD \times 0.0254) \times 16 \div \sqrt{327}$$

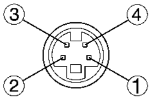
Note

- The dimensions in the table above and the values obtained from the above formulas may contain slight errors.
- It is recommended that you use the projection distance for the wide lens position (except in cases where the diagonal picture size is 0.762 m [30"]).
- The above dimensions are the case when the aspect ratio is 4:3. When an SXGA signal is input and projected, the right and left ends of the picture will be blanked the aspect ratio will be 5:4.

■ Setup precautions

- Before connecting any of your video/audio equipment to the projector, carefully read the owners manual supplied with the equipment once again.
- All cable connections should be made with the entire system devices, including the projector, first turned off.
- Obtain commercial interconnecting cables for devices supplied with no accessory or optional interconnect cables.
- Video signals containing too much jitter may cause the images on the screen to randomly wobble or shake. Inserting a time base corrector (TBC) in the projector's video line will relieve this problem.
- The projector only accepts composite-video, S-video, analog-RGB (with TTL sync. level), and digital signal from PC.
- The projector contains built-in speakers. When greater sound output is required, use an audio amplifier connected to the projector's AUDIO OUT jack. Once the cable is plugged into the AUDIO OUT jack, the audio signal lines to the internal speakers are automatically cut off.
- Some PC models are not compatible with the PT-L6500U/L6600U projector.

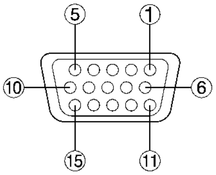
- The pin assignments on the S-VIDEO IN port are as follows:



Viewed from mating side

Pin No.	Signal
①	Ground (luminance)
②	Ground (color)
③	Luminance signal
④	Color signal

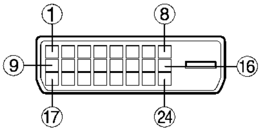
- The pin assignments on the RGB2 input port are as follows:



Viewed from mating side

Pin No.	Signal
①	R/PR
②	G/G · SYNC/Y
③	PB
⑫	SDA
⑬	HD/SYNC
⑭	VD
⑮	SCL

- The pin assignments on the DVI-D input port are as follows (interface with TMDS port on PC):

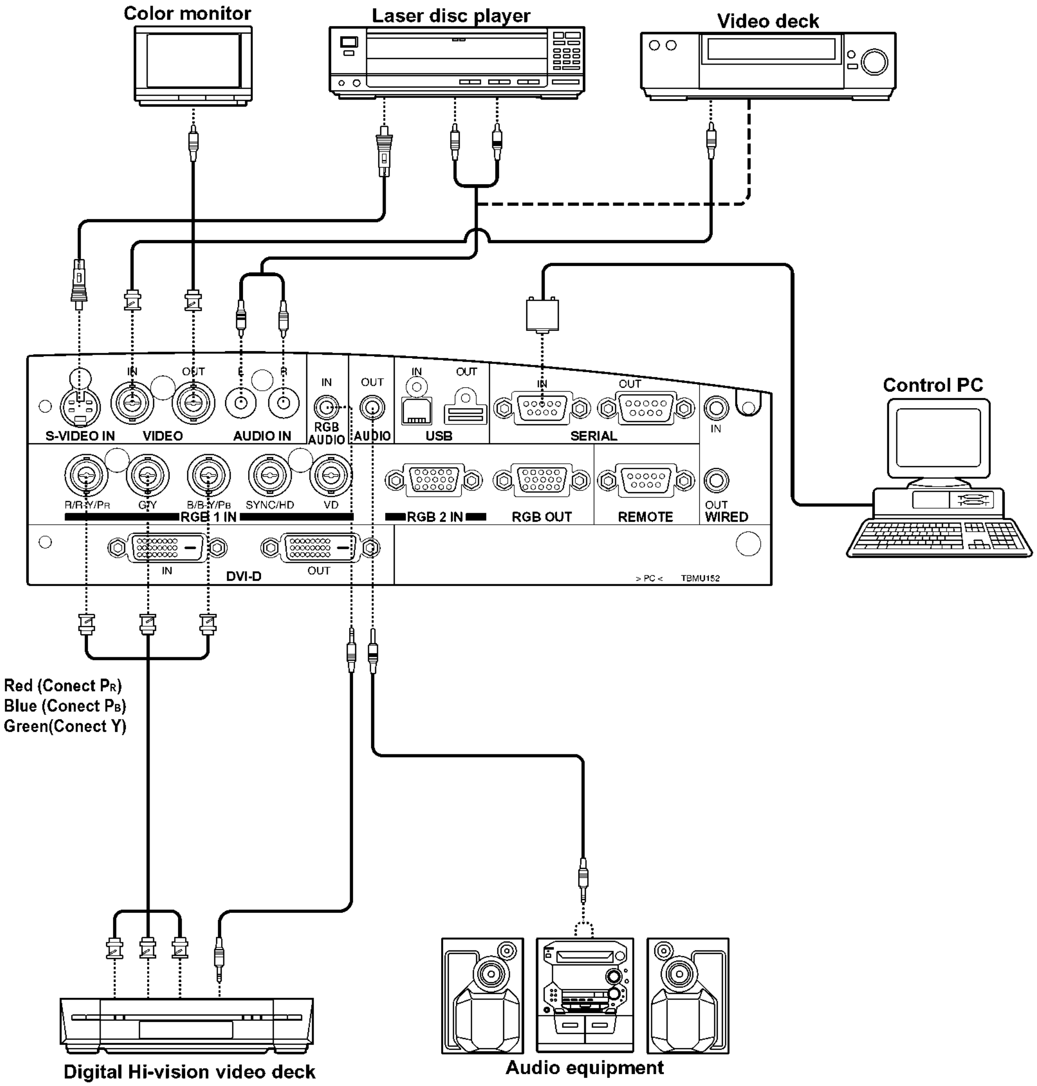


Viewed from mating side

Pin No.	Signal	Pin No.	Signal
①	T. M. D. S data 2-	⑬	T. M. D. S data 3+
②	T. M. D. S data 2+	⑭	+5 V
③	T. M. D. S data 2/4 shield	⑮	Ground
		⑯	Hot plug sense
④	T. M. D. S data 4-	⑰	T. M. D. S data 0-
⑤	T. M. D. S data 4+	⑱	T. M. D. S data 0+
⑥	DDC clock	⑲	T. M. D. S data 0/5 shield
⑦	DDC data		
⑧	—	⑳	T. M. D. S data 5-
⑨	T. M. D. S data 1-	㉑	T. M. D. S data 5+
⑩	T. M. D. S data 1+	㉒	T. M. D. S clock shield
⑪	T. M. D. S data 1/3 shield		
		㉓	T. M. D. S clock+
⑫	T. M. D. S data 3-	㉔	T. M. D. S clock-

Pin ⑨: Not used.
Pins ④-⑧, ⑩, and ⑪: Ground.
Pins ⑫ and ⑮: Valid if the PC has the corresponding function.

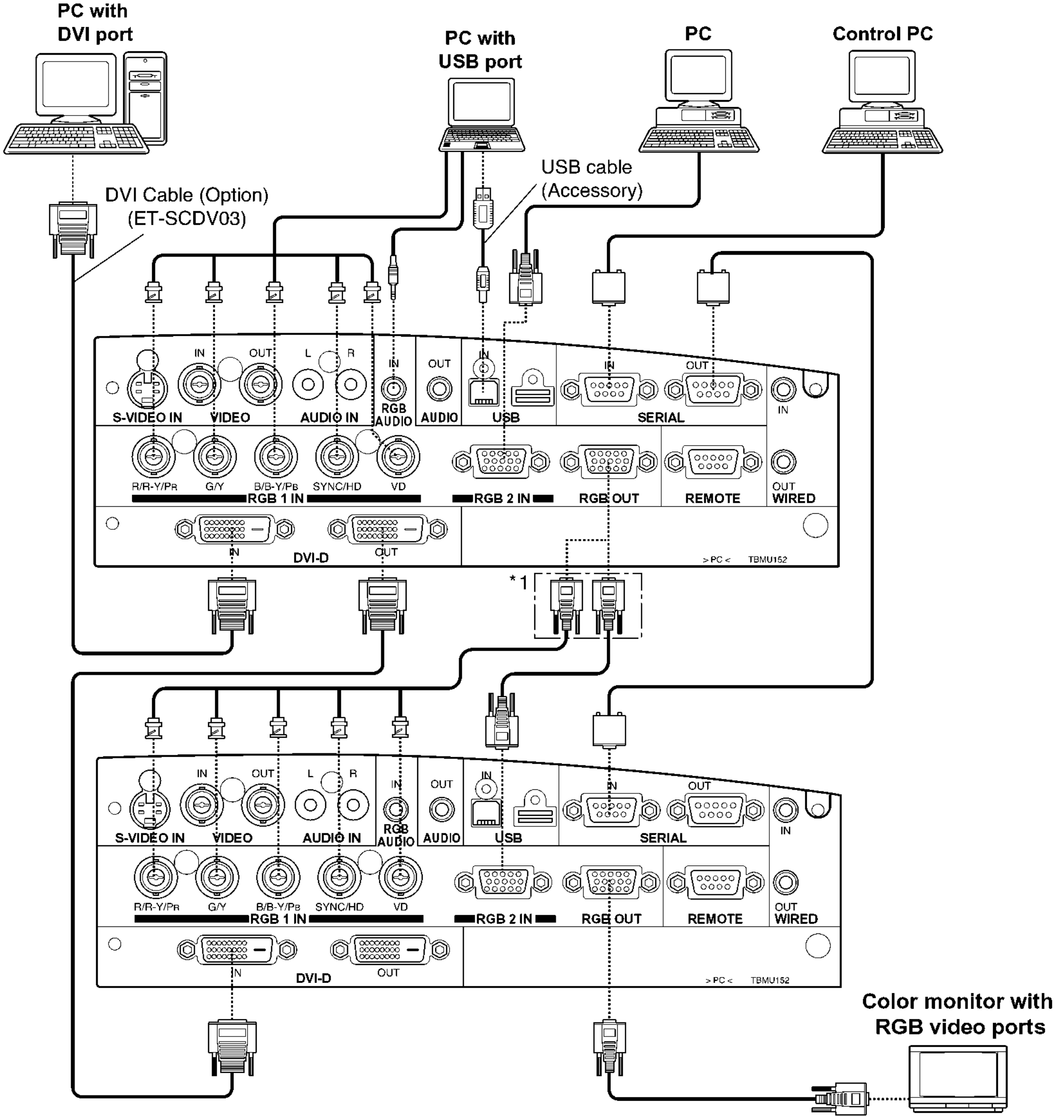
■ Example of connecting with AV products


Color monitor
Laser disc player
Video deck
Control PC
IN
OUT
L
R
S-VIDEO IN
VIDEO
AUDIO IN
IN
RGB AUDIO
OUT
AUDIO
IN
OUT
USB
IN
OUT
SERIAL
IN
R/R-Y/PR
G/Y
B/B-Y/PB
SYNC/HD
VD
RGB 1 IN
RGB 2 IN
RGB OUT
REMOTE
OUT
WIRED
IN
DVI-D
OUT
> PC <
TBMU152
Red (Conect PR)
Blue (Conect PB)
Green(Conect Y)
Digital Hi-vision video deck
Audio equipment

Note

- Only a single pair of audio inputs (AUDIO IN L-R) is available for the composite and S video, also only a signal RGB audio input is available for the RGB1, RGB2 and DVI-D. You will need to change audio input connections depending on your signal selection.
- If your audio equipment is connected to the projector's AUDIO OUT jack, the remote control supplied with the projector can be used to control volume, balance, and mute on the audio output line.

■ Example of connecting with PCs


PC with DVI port
PC with USB port
PC
Control PC
USB cable (Accessory)
DVI Cable (Option) (ET-SCDV03)
IN
OUT
L
R
S-VIDEO IN
VIDEO
AUDIO IN
RGB AUDIO
AUDIO
USB
SERIAL
R/R-Y/PR
G/Y
B/B-Y/PB
SYNC/HD
VD
RGB 1 IN
RGB 2 IN
RGB OUT
REMOTE
WIRED
DVI-D
>PC<
TBMU152
*1
Color monitor with RGB video ports

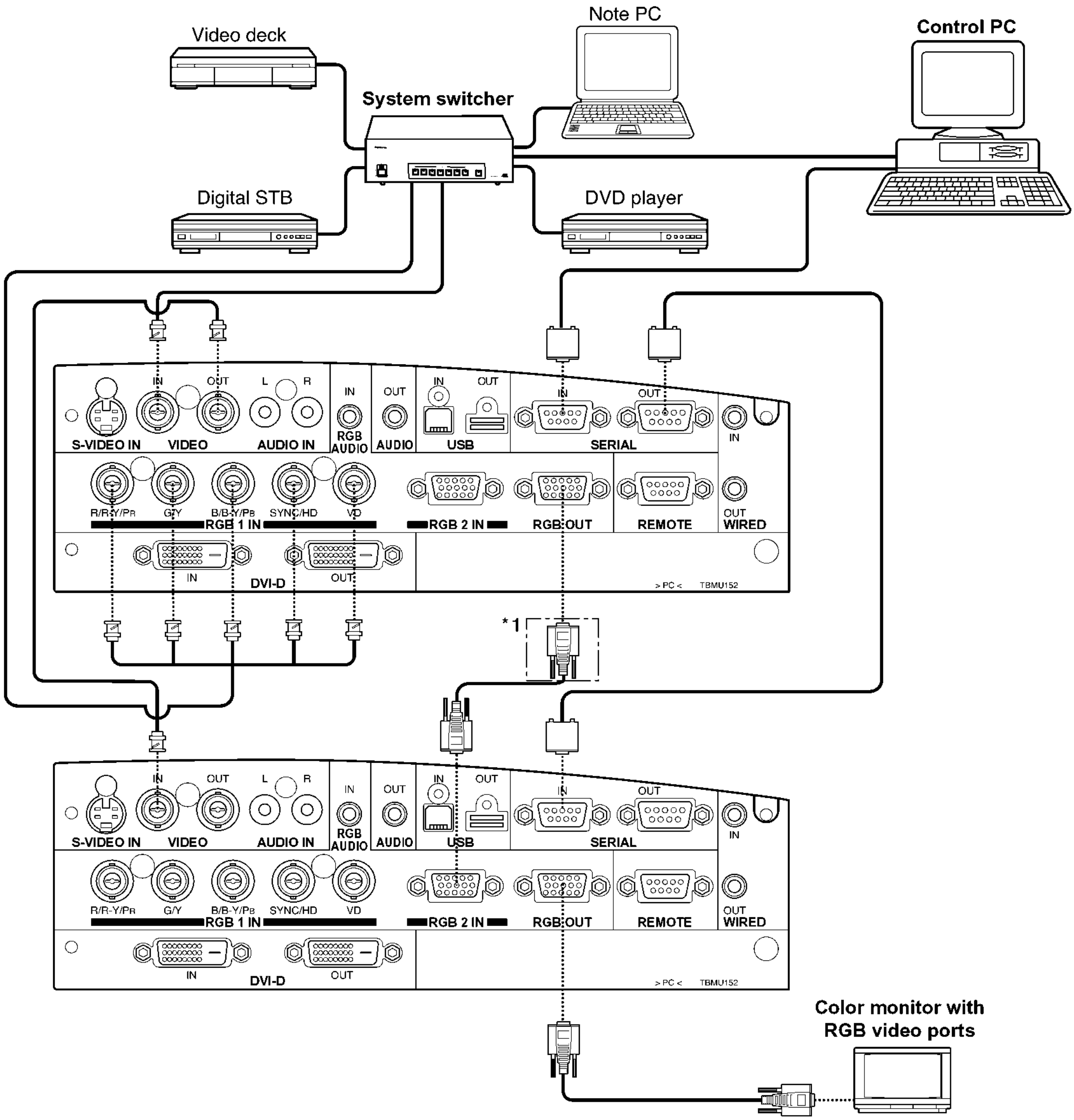
Caution

- When the projector's main power is turned OFF, also turn OFF all the PCs connected to it.
- *1 An asterisk denotes that the second projector requires positioning if the RGB outputs are connected in a daisy chain. However, the signals should be divided at the signal source if possible.

Note

- If your PC is not equipped with a USB port, a ET-RMRC1 interface will be needed to use the mouse capability of the remote control.
- For the specifications of the RGB signals that can be applied from the PC, see the data sheet on page 48.
- If your PC has the resume feature, the computer may not function properly until the resume capability is disabled.
- Signals applied to the RGB1 or RGB2 ports appear at the RGB OUT port.

■ Example of connecting with system switcher


Video deck
Note PC
Control PC
System switcher
Digital STB
DVD player
IN
OUT
L
R
S-VIDEO IN
VIDEO
AUDIO IN
RGB AUDIO
AUDIO
USB
SERIAL
R/R-Y/PR
G/Y
B/B-Y/PB
SYNC/HD
VD
RGB 1 IN
RGB 2 IN
RGB OUT
REMOTE
WIRED
DVI-D
>PC<
TBMU152
*1
Color monitor with RGB video ports

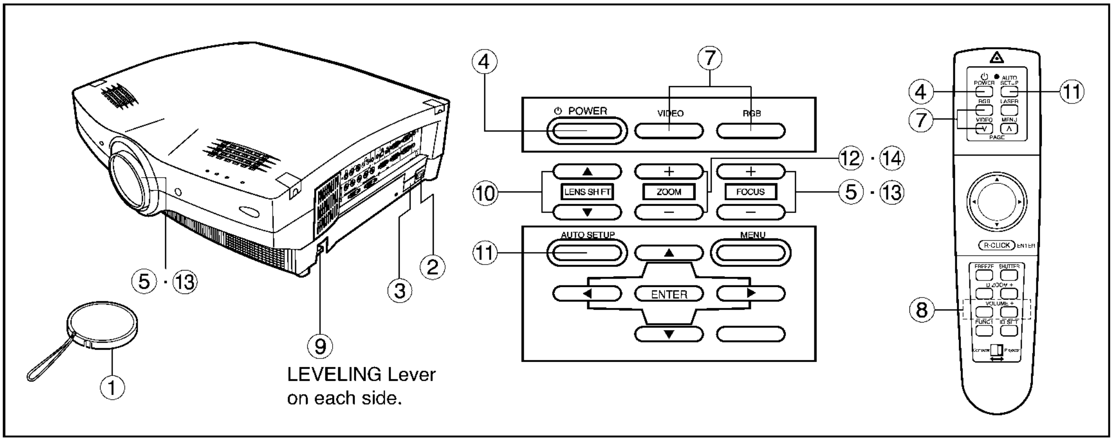
Caution

- *1 An asterisk denotes that the second projector requires positioning if the RGB outputs are connected in a daisy chain. However, the signals should be divided at the signal source if possible.

Note

- Read the operating instructions for the system switcher carefully.

Starting to use



■ Powering Up the Projector

① **Remove the lens cover.**

② **Plug one end of the accessory power cord into the projector's power receptacle, and the other end to a convenient wall outlet. (AC 100-120 V 50Hz/60 Hz)**

③ **Press the " I " marked side of the MAIN POWER switch.**
The projector will enter standby mode, with the power status light lit in red.

④ **Press the "POWER" button on the projector or "POWER" button on the remote control.**
The power indicator on the projector will flash orange. After a shot period, the indicator will illuminate green.

■ Making Initial Adjustment / Setting input port

⑤ **Roughly adjust the focus with the "FOCUS (+/-)" buttons on the rear control panel or with focus ring on the projection lens.**

⑥ **Choose the projection scheme (page 34).**

⑦ **Select the input port with the "RGB" or "VIDEO" button. --- [Projector or remote control]**

RGB	RGB1(YPBPR1) → RGB2(YPBPR2) → DVI ↺
VIDEO	S-VIDEO ↔ VIDEO

⑧ **Adjust volume level with the "VOLUME (+/-)" buttons. --- [Remote control]**
For volume level control on the projector, see page 27. If your audio equipment is connected to the AUDIO OUT jack, the VOLUME control adjusts the line output level.

⑨ **Adjust the projector's tilt angle (page 24).**

⑩ **Adjust the vertical position of the picture (page 24)**

⑪ **Press the "AUTO SETUP" button --- [Projector or remote control]**

⑫ **Fit the picture size to the screen size--- [Projector]**
Fit the picture size to the screen size with the "ZOOM (+/-)" buttons on the projector's rear control panel. Repeat steps ⑨ through ⑫ until the picture completely fits within the screen bounds.

⑬ **Adjust focus again with the "FOCUS (+/-)" buttons on the rear control panel or with the focus ring on the projection lens.**

⑭ **Adjust the "ZOOM (+/-)" buttons again until the picture completely fits within the screen bounds.**

■ Powering Off the Projector

1. Press and hold the "POWER" button for more than 0.5 seconds or quickly double-press the button. The projection lamp will turn off, with the power status light turned to orange.
2. Wait until the power status light turns to red (i.e., until the cooling fan stops). While the cooling fan is still running, never switch the MAIN POWER switch OFF, unplug the projector from the outlet, or open the main circuit breaker.
3. Press the "O" marked side of the MAIN POWER switch to remove all power from the projector.

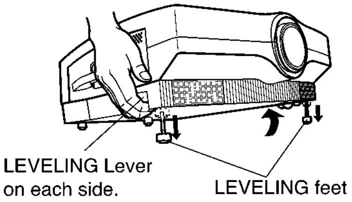
Note

- If the projector is re-powered while the projection lamps are cooling down after the last power off, the lamps will remain off for a short time before they automatically turn on again (Power Status light flashing in orange).
- The projector consumes approx. 9 Watts of power in Standby mode after the cooling fan stops (Power Status light lit in red).
- If you inadvertently shut off the Main Power switch, the projection lamp may remain off for some time on re-powering the projector. The lamp will automatically turn on after a period of time (Power Status light lit in green).

■ Leveling the Projector

For the best viewing result free from distortion, the projector should be carefully leveled on its base. Follow the steps below to correct the tilt angle of the projector when it is installed on a floor-standing base.

1. While lifting and holding the front side of the projector to the level position, pull and hold the LEVELING button on each side of the bottom panel until the leveling feet rest on the projector base surface.



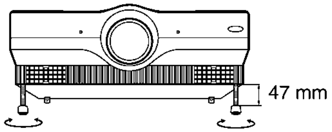
Caution

- Keep holding the projector until both leveling feet touch the base surface.

2. Release the LEVELING levers.

The leveling feet lock in place.

3. Make fine leveling adjustments by manually turning the leveling feet.

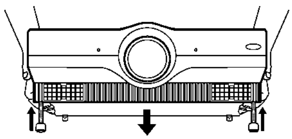


Note

- The maximum length of the leveling foot is 47 mm. If it is rotated on reaching that length it will turn freely without extending further.
- If the picture has keystone distortion, do keystone adjustment from the menu. (page 32)

<Retracting the Leveling Feet>

While lifting the front side of the projector, raise the Leveling lever, and then slowly lower the unit.



Caution

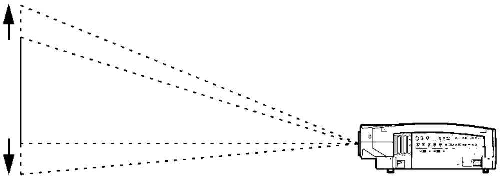
- Do not press the LEVELING levers without holding the projector with your hands. Otherwise, the leveling feet will be unlocked and the projector may drop rapidly onto the projector base surface, possibly leading to damage.

■ Adjusting the Vertical Position of the Picture

The vertical position of the picture can be adjusted using the electric “LENS SHIFT” buttons on the rear control panel. Do this adjustment after the projection distance and projector position have been determined.

- **Adjusting vertical position with the “LENS SHIFT” buttons:**

Press the ▲ button to shift the picture upward.



Press the ▼ button to shift the picture downward.

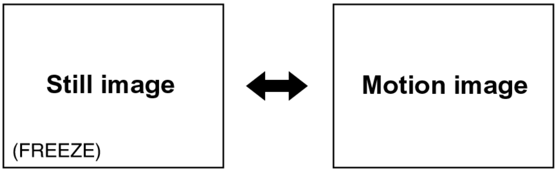
- **Adjusting vertical position from the menu:**
  Alternatively, you can adjust the vertical position of the picture by choosing the “LENS SHIFT” option from the “OPTION 1” menu chosen from the MAIN MENU (see page 34).

Caution

When shifting the lens, be careful not to catch your fingers between the lens and shroud.

Using the Freeze function

The picture freezes each time you press the remote control “FREEZE” button.



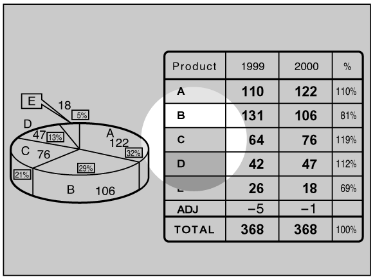
Using the Shutter function

The shutter function can be used to momentarily turn off the picture and sound from the projector when the projector is not being used for short periods of time, such as during breaks in meetings or when carring out preparation. The projector uses less power in shutter mode than it does in normal projection mode.

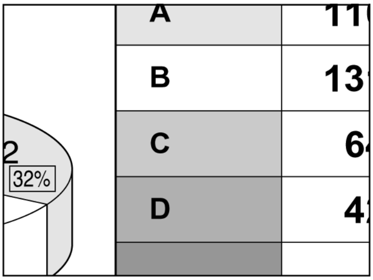
1. **Press the remote control/ “SHUTTER” button to mute both picture and sound.**
   Both video and audio are turned off.
2. **To clear muting, press any button on the remote control or projector.**
   Apear the picture and sound.

Using the Digital Zoom (D.ZOOM +/-) function

A specific portion of the picture presently on the screen can be zoomed in on with the remote control/ “D.ZOOM (+/-)” buttons. You may find it useful for highlighting a specific object during your presentation.



Product	1999	2000	%
A	110	122	110%
B	131	106	81%
C	64	76	119%
D	42	47	112%
	26	18	69%
ADJ	−5	−1	
TOTAL	368	368	100%



< For PT-L6500U >

1. **Press the remote control Digital Zoom (D.ZOOM +/-) buttons.**
   The projector enters Highlight mode as illustrated on the left.

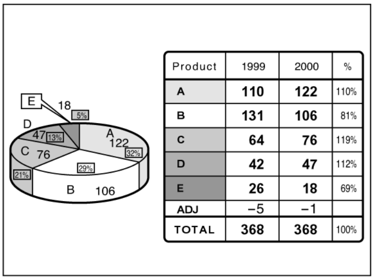
2. **Use the arrow (▲ ▼ ◀ ▶) buttons to highlight the portion you wish to zoom in on.**

3. **Press the “ENTER” button.**
   The highlighted portion will now be enlarged 2.0 times to the size of the full screen.

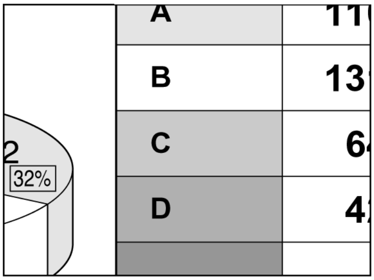
4. **Change the magnification with the “D.ZOOM (+/-)” buttons.**
   RGB signal input : Over the range of 1.0 to 3.0 times in 0.1 steps.
   Video signal input : Over the range of 1.0 to 2.0 times.

5. **To restore the original image, press the “MENU” button.**
   Pressing the “MENU” button will not return the screen to Highlight mode. To return to Highlight mode, temporarily exit Zoom mode, then press the “D.ZOOM (+/-)” button again.

Using Digital Zoom (D.ZOOM +/-) function



Product	1999	2000	%
A	110	122	110%
B	131	106	81%
C	64	76	119%
D	42	47	112%
E	26	18	69%
ADJ	−5	−1	
TOTAL	368	368	100%



< For PT-L6600U >

1. **Press the Remote Control/ "D.ZOOM +/-" button.**
   The center portion of the picture will be magnified.

2. **Change magnification with the "D.ZOOM +/-" button:**
   Magnification can be changed from 1.0 to 3.0 times for RGB, and 1.0 to 2.0 times for composite or S-video, all in 0.1 steps.

3. **The enlarged portion of the picture can be shifted with the ▲, ▼, ◀, or ▶ buttons.**
   The highlighted portion will now be enlarged 2.0 times to the size of the full screen.

4. **Press the "MENU" button to return to the normal picture.**

Caution

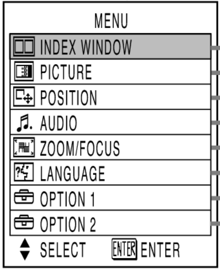
- If the input video signal format is changed while in Zoom mode, the projector will exit Zoom mode.
- PT-L6600U does not have a highlight indication.

On-screen menus

■ Menu screens

Menus are extensively used for configuring, adjusting, or reconfiguring the projector. The menu structure is as follows:

MAIN MENU (PT-L6500U)

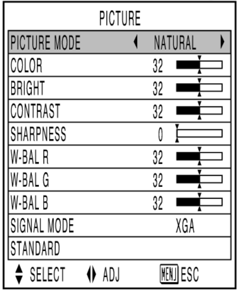

MENU
INDEX WINDOW
PICTURE
POSITION
AUDIO
ZOOM/FOCUS
LANGUAGE
OPTION 1
OPTION 2
SELECT
ENTER ENTER

Note • PT-L6600U does not have "INDEX WINDOW" function.

INDEX WINDOW FUNCTION (Page 29)

PICTURE (Pages 30 and 31)

When on RGB/YP$_B$P$_R$/DVI signal is being input

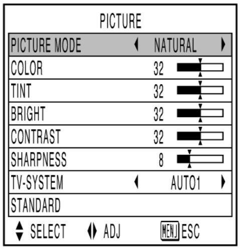


PICTURE

PICTURE MODE	NATURAL
COLOR	32
BRIGHT	32
CONTRAST	32
SHARPNESS	0
W-BAL R	32
W-BAL G	32
W-BAL B	32
SIGNAL MODE	XGA
STANDARD	

SELECT
ADJ
MENU ESC

When on S Video/Video signal is being input



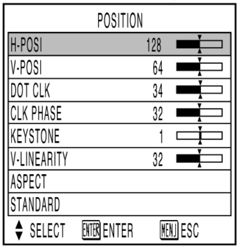
PICTURE

PICTURE MODE	NATURAL
COLOR	32
TINT	32
BRIGHT	32
CONTRAST	32
SHARPNESS	8
TV-SYSTEM	AUTO1
STANDARD	

SELECT
ADJ
MENU ESC

POSITION (Pages 32 and 33)

When on RGB/YP$_B$P$_R$ signal is being input

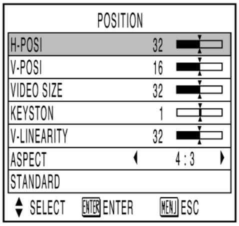


POSITION

H-POSI	128
V-POSI	64
DOT CLK	34
CLK PHASE	32
KEYSTONE	1
V-LINEARITY	32
ASPECT	
STANDARD	

SELECT
ENTER ENTER
MENU ESC

When on S Video/Video signal is being input

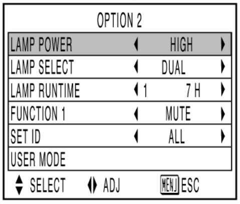


POSITION

H-POSI	32
V-POSI	16
VIDEO SIZE	32
KEYSTON	1
V-LINEARITY	32
ASPECT	4 : 3
STANDARD	

SELECT
ENTER ENTER
MENU ESC

OPTION 2 (Pages 35 and 36)

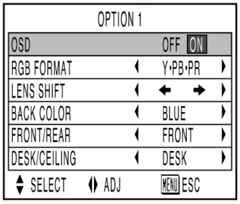


OPTION 2

LAMP POWER	HIGH
LAMP SELECT	DUAL
LAMP RUNTIME	1 7 H
FUNCTION 1	MUTE
SET ID	ALL
USER MODE	

SELECT
ADJ
MENU ESC

OPTION 1 (Page 34)

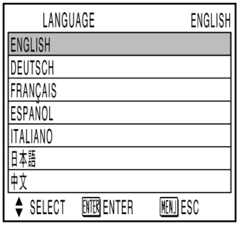


OPTION 1

OSD	OFF ON
RGB FORMAT	Y·PB·PR
LENS SHIFT	← →
BACK COLOR	BLUE
FRONT/REAR	FRONT
DESK/CEILING	DESK

SELECT
ADJ
MENU ESC

LANGUAGE (Page 33)

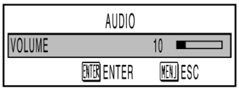


LANGUAGE ENGLISH

ENGLISH
DEUTSCH
FRANÇAIS
ESPAÑOL
ITALIANO
日本語
中文
SELECT
ENTER ENTER
MENU ESC

ZOOM/FOCUS (Page 33)

VOLUME ADJUSTMENT



AUDIO

VOLUME 10

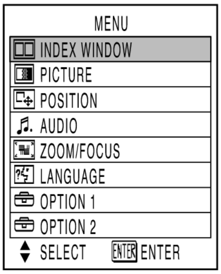
ENTER ENTER
MENU ESC

Press the "ENTER" botton, and the press the ◀ and ▶ bottons to adjust the volume level.

■ Basic Menu Operations

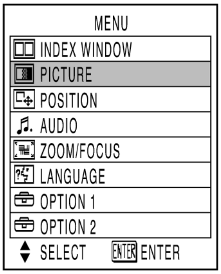
1. Press the “MENU” button.

The MAIN MENU appears on the screen.
(e.g. : MAIN MENU for the PT-L6500U)


MENU
INDEX WINDOW
PICTURE
POSITION
AUDIO
ZOOM/FOCUS
LANGUAGE
OPTION 1
OPTION 2
SELECT
ENTER ENTER

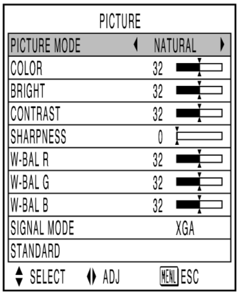
2. Select (highlight) the desired item with the ▲ or ▼ buttons.

Selected items are displayed in yellow.


MENU
INDEX WINDOW
PICTURE
POSITION
AUDIO
ZOOM/FOCUS
LANGUAGE
OPTION 1
OPTION 2
SELECT
ENTER ENTER

3. Press the “ENTER” button to enter your selection.

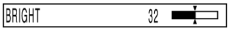
The submenu for the selected option will now open.
(e.g. : PICTURE Menu)


PICTURE
SELECT
ADJ
MENU ESC

PICTURE MODE ◀ NATURAL ▶
COLOR 32
BRIGHT 32
CONTRAST 32
SHARPNESS 0
W-BAL R 32
W-BAL G 32
W-BAL B 32
SIGNAL MODE XGA
STANDARD

4. Highlight the desired adjustment item with the ▲ or ▼ buttons, then change the parameter value with the ◀ or ▶ buttons.

An individual bar graph as shown in the following figure is displayed for each adjustment item.



- If no button is operated for approx. 5 seconds while a bar graph is displayed, the screen will return to the previous page.

■ Returning to the Previous Page

- Pressing the “MENU” button returns the screen to the previous menu page.
- When the MAIN MENU is on the screen, pressing the “MENU” button clears all menus from the screen.

■ Menu Items Shown with White Characters

- Some menu items may not be valid for some signal formats applied to the projector. Invalid menu items are shown in white letters and the “ENTER” button remains ineffective to those items.

■ Menu Items Setting

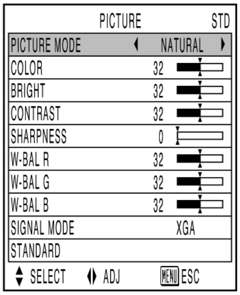
The bottom prompt line differs on each menu depending on the selected menu option:

- The prompt “◀ ▶ ADJ” is displayed for direct adjustment.
- The prompt “ENTER ENTER” appears for a separate bar graph.

■ Reset the Factory Default

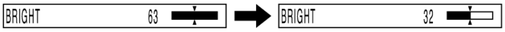
If the “STANDARD” option in the “PICTURE” or “POSITION” menus is chosen, or the “STANDARD” option in the remote control's “FUNC1” button menu is chosen, all the parameter values in the menu are reset to the factory default.

- Default Setting in Menu
  When all the parameter values in the menu are reset to the factory default, a “STD” indicator appears on the upper right corner of the menu.


PICTURE
STD
SELECT
ADJ
MENU ESC

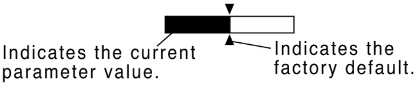
PICTURE MODE ◀ NATURAL ▶
COLOR 32
BRIGHT 32
CONTRAST 32
SHARPNESS 0
W-BAL R 32
W-BAL G 32
W-BAL B 32
SIGNAL MODE XGA
STANDARD

- Default Setting on Bar Graph
  If the parameter value on a bar graph is reset to the factory default, the bar turns to green.


BRIGHT 63
BRIGHT 32

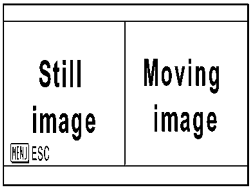
Note

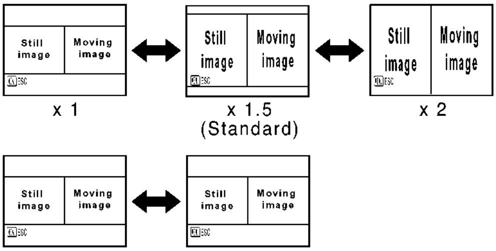
- The upper and lower triangular markings on a bar graph indicate the default setting for the parameter. If no such triangular markings are shown on the bar graph, the parameter cannot be reset to the factory default.


Indicates the current parameter value.
Indicates the factory default.

Using the INDEX WINDOW function (PT-L6500U only)

The picture presently on the screen can be saved to memory as a still image. The saved image can then be shown alongside a moving image in a split screen (index window).





Note

- The aspect ratio of each half of the split screen is 2:3, with the image height extended by 1.5 times the normal height by default.

1. **Select the "INDEX WINDOW" from menu and press the "ENTER" button.**

2. **Change the picture height with the ▲ or ▼ button.**
   - The picture height can be changed at a magnification of x1, x1.5, or x2.0 times.

3. **The still and motion images can be swapped with the ◀ or ▶ button.**

4. **Press the "ENTER" button to save the split screen image to memory as an index window image.**

Caution

- As you change the screen size, the aspect ratio of the picture also changes. Carefully read the caution for S1 signals on page 33 before changing the screen size.

Note

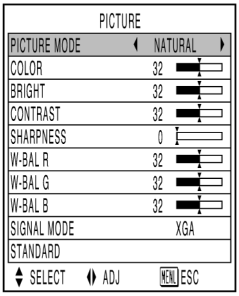
- When you execute steps 2 and 3 above, the memory is temporarily cleared and the index window image is saved to memory.
- If the input signal format is changed while an index window is on the screen, the projector will exit the index window mode.

Adjusting the picture

1. Obtain the MENU window and select (highlight) the desired option item with the ▲ or ▼ buttons.

2. Adjust the parameter value with the ◀ or ▶ buttons. For items requiring a separate bar graph, first display the bar graph with the "ENTER" or ◀ / ▶ buttons, then adjust the parameter value with the ◀ or ▶ buttons.

- For RGB/YP_BP_R/DVI signals

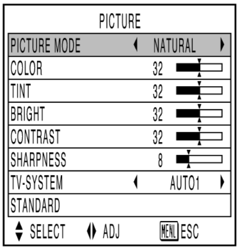


PICTURE

PICTURE MODE	◀ NATURAL ▶	
COLOR	32	
BRIGHT	32	
CONTRAST	32	
SHARPNESS	0	
W-BAL R	32	
W-BAL G	32	
W-BAL B	32	
SIGNAL MODE		XGA
STANDARD		

▲▼ SELECT ◀▶ ADJ MENU ESC

- For composite or S-video signals



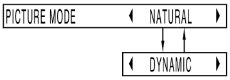
PICTURE

PICTURE MODE	◀ NATURAL ▶	
COLOR	32	
TINT	32	
BRIGHT	32	
CONTRAST	32	
SHARPNESS	8	
TV-SYSTEM	◀ AUTO1 ▶	
STANDARD		

▲▼ SELECT ◀▶ ADJ MENU ESC

■ PICTURE MODE

The picture mode can be selected from the following depending on viewing conditions and the video signal source in use:



PICTURE MODE ◀ NATURAL ▶

◀ DYNAMIC ▶

NATURAL: Picture brightness/contrast ratio is adjusted to that suitable for projection image viewing under typical location conditions.

DYNAMIC: Picture brightness/contrast ratio is increased to suit brighter viewing environments.

■ COLOR

(Valid for composite/S-video/YP_BP_R signals only)

▶ button: Deepens colors.

◀ button: Weakens colors.

■ TINT

(Valid for NTSC / NTSC4.43 standard)

"TINT" is used to adjust human skin.

▶ button: Adjusts skin tone toward greenish color.

◀ button: Adjusts skin tone toward reddish-purple.

Note

- PT-L6600U is able to adjust the tint level at YP_BP_R input mode.

■ BRIGHT

"BRIGHT" is used to adjust the black level (brightness).

▶ button: Raises the picture brightness.

◀ button: Lowers the picture brightness.

■ CONTRAST

"CONTRAST" is used to adjust the contrast ratio.

▶ button: Raises the contrast ratio.

◀ button: Lowers the contrast ratio.

■ SHARPNESS

(Valid for composite/RGB/YP_BP_R signals only for PT-L6500U)

(Valid for composite/YP_BP_R signals only for PT-L6600U)

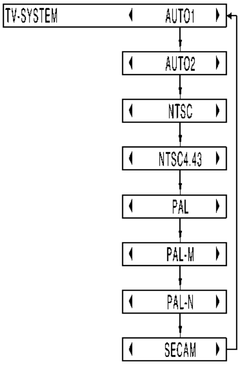
"SHARPNESS" is used to adjust the crispness of the image.

▶ button: Sharpens the edge of the image.

◀ button: Softens the edge of the image.

■ TV-SYSTEM

(for composite/S-video only)



AUTO1 : Automatically selects the TV standard that matches the input video signal, out of NTSC, PAL, NTSC4.43, and SECAM.

AUTO2: Automatically selects the TV standard that matches the input video signal, out of NTSC, PAL-M, and PAL-N.

- Normally “AUTO1” or “AUTO2” should be chosen for this option.
- If input video signal quality is poor, choose the TV system that matches the input video signal.

Automatically selected by detecting the horizontal/vertical scan frequencies and color sub-carrier listed in the table below:

Table	H. Scan Frequency (kHz)	V. Scan Frequency (Hz)	Color Subcarrier (MHz)
NTSC	15.75	60.00	3.58
NTSC4.43	15.75	60.00	4.43
PAL	15.63	50.00	
PAL-M	15.75	60.00	3.58
PAL-N	15.63	50.00	
SECAM	15.63	50.00	4.25 or 4.41

■ W.BAL (White balance) R/G/B

(for RGB/DVI signals only)

White balance may be adjusted for each color to correct reddish or bluish tones in white portions of the picture:

▶ button: Deepens the selected color.

◀ button: Weakens the selected color.

Note

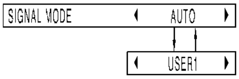
- Separate sets of adjustment parameters can be saved for the RGB1, RGB2 and DVI inputs.

■ SIGNAL MODE

(for RGB/YPBPR/DVI signals only)

“SIGNAL MODE” displays the names of the signals (resolution) presently applied to the RGB or YPBPR input ports. For details of signal names, see the table on page 48.

If the user mode is registered, the following menu will appear. You can choose either “AUTO” or a registered user setting from “USER1” to “USER3” with the ◀ or ▶ buttons.



If “AUTO” is chosen, a setting closest to the user setting is automatically selected. (In the example above, only “USER1” is registered for user address.)

Note

- If you choose a user address registered for a signal that does not match the input signal, it is regarded as no signal, and the projector will display the specified background color.

■ STANDARD

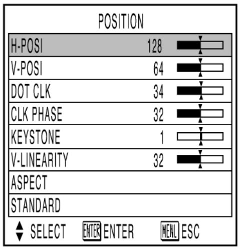
Pressing the “ENTER” button resets all the adjustment parameter values to the factory default values, with a “STANDARD” indicator shown on the upper right corner of the menu.

Adjusting the position

1. Obtain MENU window and move highlight cursor up and down through the menu with the ▲ or ▼ button.

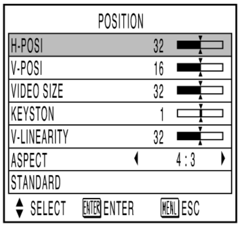
2. Adjust parameter value for the selected item with the ◀ or ▶ button. For items that call for a separate bar graph, first show the bar graph with the “ENTER” or ◀ / ▶ button, then adjust parameter value with the ◀ or ▶ button.

- For RGB/YP_BP_R/DVI signals



POSITION
H-POSI 128
V-POSI 64
DOT CLK 34
CLK PHASE 32
KEYSTONE 1
V-LINEARITY 32
ASPECT
STANDARD
▲▼ SELECT ENTER ENTER MENU ESC

- For composite or S-video signals



POSITION
H-POSI 32
V-POSI 16
VIDEO SIZE 32
KEYSTON 1
V-LINEARITY 32
ASPECT ◀ 4 : 3 ▶
STANDARD
▲▼ SELECT ENTER ENTER MENU ESC

■ HORIZONTAL POSITION (H.POSI)

▶ button: Shifts the picture to the right.
◀ button: Shifts the picture to the left.

■ VERTICAL POSITION (V.POSI)

▶ button: Shifts the picture upward.
◀ button: Shifts the picture downward.

■ VIDEO SIZE

(Vaild for composite video/S-video only)
▶ button: Increases picture size.
◀ button: Reduces picture size.

■ DOT CLK

(Vaild for RGB signals only)
Fine, regular patterns on the screen may be disturbed by fine stripe noise called moire. Dot clock adjustment allows the user to minimize this moire.

■ CLK PHASE (for RGB signals only)

Adjust clock phase after you are finished with dot clock adjustment.
Clock phase adjustment allows the user to minimize visible noise with the ◀ or ▶ button.

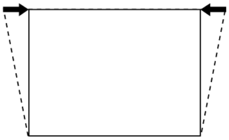
Note

- A noise may not disappear when adjusting the dot clock or clock phase at UXGA signal mode.
- Clock phase is adjustable for each of R, G, and B signals. Final parameter values are saved to memory.
- Clock phase adjustment is not available for digital RGB signals.

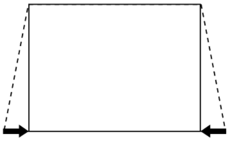
■ KEYSTONE

(Vaild for composite video/S-video/RGB signals only)
Keystone distortion can be corrected only along either horizontal bound of the picture:

▶ button:



◀ button:



Note

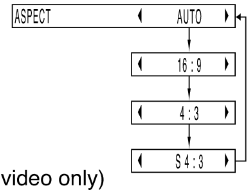
- Keystone distortion can be corrected to ±20° of the angle of tilt for the projector. However,the greater the correction amount,the more the picture quality will deteriorate, and the harder it will become to achieve a good level of focus. To obtain the best picture quality, set up the projector and screen in such a way that the amount of keystone correction required is as minimal as possible.
- The picture size will also change when correction of keystone distortion is carried out.

■ V. LINEARITY

After you are finished with keystone adjustment, adjust vertical linearity with the ◀ or ▶ button.
Vertical linearity is not adjustable if no correction was made to keystone distortion.

■ ASPECT

Aspect ratio is adjustable only for composite video, S-video, or YPBPR signals complying with the NTSC (480 i or 480 p) or PAL (625 i) standards.



[AUTO]: (S-video only)
If an S1 video signal is applied to the S-VIDEO port, the picture is automatically switched to the 16:9 aspect ratio.

[16:9]: The image is vertically compressed into a 16:9 ratio.

[4:3]: The aspect ratio inherent to the input video signal is left intact when projected onto the screen.

[S4:3]: Picture size is compressed to 75% of the original picture size when projected. (This mode is useful when viewing pictures with the standard 4:3 aspect ratio on a wide screen with the 16:9 aspect ratio.)

What Is S1 Video?

- The S1 video is the wide-aspect-ready S-video format containing an aspect sense signal for squeezed videos fed from video equipment.
- If “AUTO” is chosen, the projector automatically compresses the squeezed input video into the 16:9 aspect ratio if it detects the aspect sense signal.

Caution

- If you choose an aspect ratio that does not match the source video's aspect ratio, you will see a picture with an aspect ratio not the same as that of the original picture. Choose the appropriate aspect ratio carefully to match that of the original picture.

Note

- If an aspect ratio not intended for the original picture is chosen when the projector is used for profitable purpose or in the presence of audience, it may infringe the rights of the copyright owner of the original picture.
- If a picture with the standard (4:3) aspect ratio is projected at a wide aspect ratio, parts of the picture may run over the screen bounds or the overall picture may be distorted. To view the picture at its original aspect ratio, choose the standard 4:3 aspect ratio.

■ STANDARD

Pressing the “ENTER” button resets parameter values for all the menu items to the factory default, with a “STANDARD” indicator shown in the upper right corner of the menu.

Adjusting the Zoom/Focus

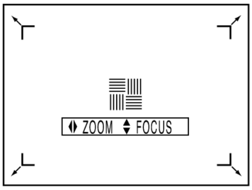
■ ZOOM

“ZOOM” is used to adjust projected picture size.

▶ button: Increases picture size.

◀ button: Reduces picture size.

When the picture size reaches the upper or lower limits, the color of the arrows on the four corners will change from light blue to red.



■ FOCUS

“FOCUS” is used to adjust picture focus with the ▲ or ▼ buttons.

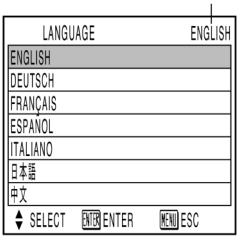
Changing the display language

1. **Highlight the desired language with the ▲ or ▼ buttons (on the projector or remote control).**
2. **Press the “ENTER” button to enter your selection.**

Menus, setting items, adjustment screens, and control button names will be displayed in the language the user chooses.

The available languages are:
English, Deutsch, Français, Espanol, Italiano, 中文 and 日本語.

Currently chosen language is displayed here.

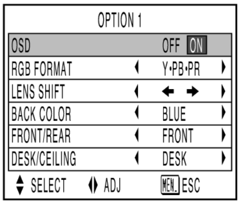


Note

- The projector's on-screen display is set to the English language by default.

OPTION 1 settings

1. **Obtain the MENU window and select (highlight) the desired adjustment item with the ▲ or ▼ buttons (on the projector or remote control).**
2. **Adjust the parameter value for the selected item with the ◀ or ▶ buttons.**



OPTION 1
OSD OFF ON
RGB FORMAT Y·PB·PR
LENS SHIFT ← →
BACK COLOR BLUE
FRONT/REAR FRONT
DESK/CEILING DESK

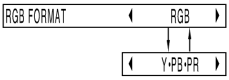
■ OSD (On-Screen Display)

ON: The name of the signal applied is displayed in the upper left corner of the screen whenever the input signal source is switched from one to another.

OFF: The signal name is not displayed even when an input source switching occurs.

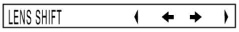
■ RGB FORMAT

"RGB FORMAT" is used to select the video signal format depending on the signal applied to the RGB1 or RGB2 port: Only HDTV (1080i)



■ LENS SHIFT

"LENS SHIFT" is convenient for adjusting vertical picture position in situations where the projector is not easily accessible.



▶ button: Shifts the picture upward.

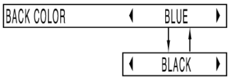
◀ button: Shifts the picture downward.

Note

- The screen picture move reverse direction when press the ◀ or ▶ button under the ceiling set up condition.

■ BACK COLOR

"BACK COLOR" is used to choose the background color from blue or black when no signal is applied to the video input ports:



BLUE: Sets background color to blue.

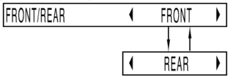
BLACK: Sets background color to black.

Note

- If a signal with unknown or unidentifiable format is applied, it will be regarded as no signal and the screen be set to the selected background color.

■ PROJECTION SCHEME 1

PROJECTION SCHEME 1 is used to choose the appropriate projection scheme from Front and Rear:

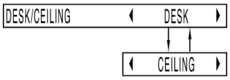


FRONT: Choose this option if pictures are projected from the front of a reflective screen.

REAR: Choose this if pictures are projected from the back of a translucent screen.

■ PROJECTION SCHEME 2

PROJECTION SCHEME 2 is used to choose the appropriate projection scheme from Floor and Ceiling:



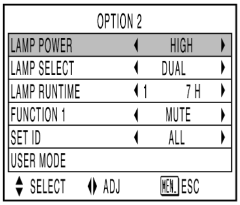
FLOOR: Choose this option if the projector is installed on a floor-standing base.

CEILING: Choose if the projector is installed on the ceiling using the optional ceiling mount bracket.

OPTION 2 settings

1. Obtain the MENU window and select (highlight) the desired adjustment item with the ▲ or ▼ buttons (on the projector or remote control).

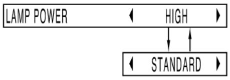
2. Adjust the parameter value for the selected item with the ◀ or ▶ buttons.


OPTION 2

LAMP POWER	HIGH
LAMP SELECT	DUAL
LAMP RUNTIME	1 7 H
FUNCTION 1	MUTE
SET ID	ALL
USER MODE	

■ LAMP POWER

"LAMP POWER" is used to change the luminance of the projection lamp depending on user's needs or the viewing conditions.



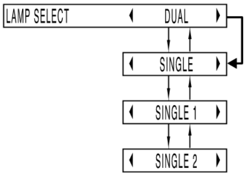
HIGH: Choose if a higher picture brightness is required.
STANDARD: Choose for normal picture brightness.

Note

- If it is not necessary for picture brightness to be very high (in a small meeting room, etc.), it is advisable that you set BRIGHTNESS to "STANDARD". This will save power consumption and extend lamp life.

■ LAMP SELECT

"LAMP SELECT" is used to choose from Single Lamp and Dual Lamp modes depending on user's needs or viewing conditions. In Single Lamp mode, the projector may automatically select either lamp from the 2 lamps, or the particular lamp can be specified.



* Press and hold the "ENTER" button for approximately 3 seconds. (lamp with longer operating hours is turned off)

DUAL: Two lamps are used simultaneously.
SINGLE: One of either lamps is used (lamp with shorter operating hours is automatically selected).
SINGLE 1: Lamp Unit 1 is always used.
SINGLE 2: Lamp Unit 2 is always used.

Caution

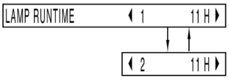
- Lamp can be selected without turning off the projector.
- If lamp mode is switched from "SINGLE", "SINGLE 1", or "SINGLE 2" into "DUAL", be sure to temporarily turn the projector OFF, then turn it ON again. The "DUAL" mode will become valid only after the projector is turned back ON.

Note

- When the currently active lamp exceeds 2000 hours of cumulative operating time, if in "SINGLE1" or "SINGLE2" mode, the other lamp takes over, provided that the cumulative operating time of that lamp does not exceed 2000 hours.If the cumulative operating time of the other lamp also exceeds 2000 hours when in "Dual", "SINGLE", "SINGLE1", or "SINGLE2" mode, the projector will enter Standby mode after 10 minutes.
- If only one lamp is installed in the projector, set lamp mode to either "SINGLE1" or "SINGLE2". "SINGLE1" or "SINGLE2" is selected. If the corresponding lamp is not installed, the other lamp will turn on. The same holds for "SINGLE2" mode. If "SINGLE" mode is selected, it may take approx. 90 seconds before the lamp turns ON.

■ LAMP RUNTIME

"LAMP RUNTIME" is used to check the cumulative operating hours of the two projection lamps.



"1": Lamp 1 operating hours is displayed.
"2": Lamp 2 operating hours is displayed.

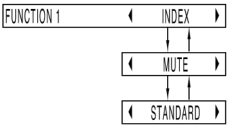
Note

- If the cumulative operating hours exceeds 1800 hours, the hour indicator flashes in red.

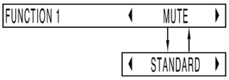
■ SETTING FUNCTION 1 [FUNC 1]

"FUNCTION 1" is used to specify the function of the remote control / "FUNC 1" button. ("FUNC 1" button functions differ between the PT-L6500U and PT-L6600U.)

- PT-L6500U



- PT-L6600U

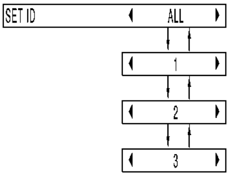


INDEX: Pressing the "FUNC 1" button displays both still and motion images on a split screen (same as the "INDEX WINDOW" option in the MAIN MENU).
MUTE: Pressing the "FUNC 1" button mutes the sound output.
STANDARD: Pressing the "FUNC 1" button resets all the parameter values now in the menu to the factory default, with a "STANDARD" indicator shown in the upper right corner of the menu.

OPTION 2 settings

■ SETTING UNIT ID

UNIT ID is used to set projector IDs when the user wishes to control two or more projectors either simultaneously or separately.



"ALL": The projectors can be simultaneously controlled from any remote control regardless of their ID settings.

"1": The projector can be controlled from the remote control with its projector ID set to "1".

"2": The projector can be controlled from the remote control with its projector ID set to "2".

"3": The projector can be controlled from the remote control with its projector ID set to "3".

Note

- Unit ID is set to "ALL" by default. Hence ID number need not be set when only one projector is used.
- If the projectors are given ID numbers, their remote controls must be assigned the same ID numbers, respectively.
- If the unit IDs of two or more projectors are set to "ALL", the user will not be able to control them separately.
- The projector can be turned ON/OFF from the remote control only if the projector ID is set in the remote control. For the details of projector ID setting, see page 15.

■ Registering/Deleting/ Displaying User Mode

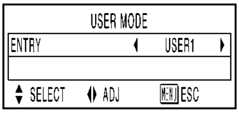
(For RGB/YP_BP_R/DVI signals only)

Once adjustment settings are registered with User Mode, they are automatically loaded each time the projector is powered up. It is not necessary to readjust settings at every power on.

Registering User Mode

(e.g. Registering positioning data with "USER1")

1. Apply an input signal you want to register, and then adjust the picture position, size, and others.
2. Choose "USER MODE" on "OPTION2" and press the "ENTER" button.


USER MODE
ENTRY ◀ USER1 ▶

3. Choose "USER1" using the ◀ or ▶ buttons and press the "ENTER" button.

Note

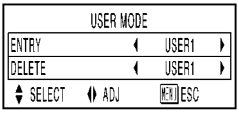
- The user address has "USER1" to "USER3".

4. After recognizing the flashing of the "USER1" address display, press the "ENTER" button again.
5. The above adjusted settings has been registered with "USER1". Similarly you can also register settings with "USER2" or "USER3".

Deleting User Mode

(e.g. Deleting the data of USER1)

1. Choose "USER MODE" on "OPTION2" and press the "ENTER" button.
2. Choose "DELETE" using the ▲ or ▼ buttons.
3. Choose the address ("USER1") you want to delete data from using the ◀ or ▶ buttons and press the "ENTER" button.


USER MODE
ENTRY ◀ USER1 ▶
DELETE ◀ USER1 ▶

4. After recorgnizing the flashing of the address display, press the "ENTER" button again to delete the data of the address.

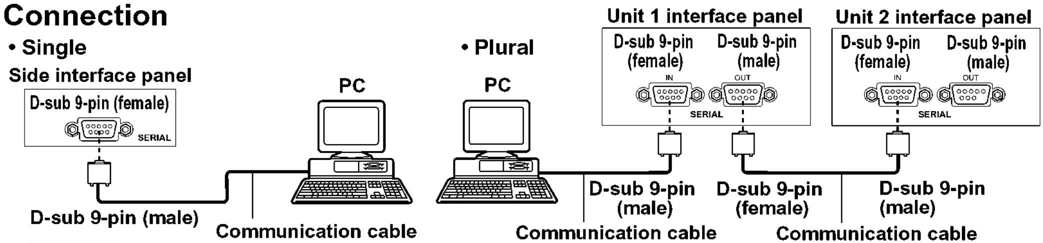
Displaying User Mode

The User Mode can be displayed by following the steps described in "SIGNAL MODE" on page 31.

Using the SERIAL

The projector is equipped with an RS-232C standard serial terminal at the rear. It is therefore possible to connect it to a computer for control.

■ Connection

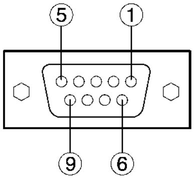


• Single
Side interface panel
D-sub 9-pin (female)
SERIAL
PC
D-sub 9-pin (male)
Communication cable
• Plural
PC
Unit 1 interface panel
D-sub 9-pin (female)
D-sub 9-pin (male)
IN
OUT
SERIAL
Unit 2 interface panel
D-sub 9-pin (female)
D-sub 9-pin (male)
IN
OUT
SERIAL
D-sub 9-pin (male)
D-sub 9-pin (female)
D-sub 9-pin (male)
Communication cable
Communication cable

Caution

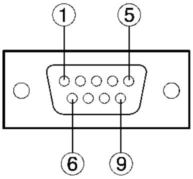
- Purchase an appropriate communication cable to connect a computer to the serial terminal.

■ Pin assignments and signal names



D-Sub 9-pin (female) external appearance

Pin No.	Signal name	Description
①		NC
②	TXD	Send data
③	RXD	Receive data
④		Connected internally
⑤	GND	Ground
⑥		NC
⑦	CTS	Connected internally
⑧	RTS	
⑨		NC



D-Sub 9-pin (male) external appearance

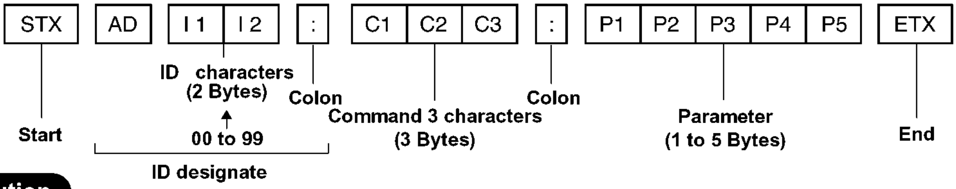
Pin No.	Signal name	Description
①		NC
②	RXD	Receive data
③	TXD	Send data
④		NC
⑤	GND	Ground
⑥		NC
⑦	RTS	Connected internally
⑧	CTS	
⑨		NC

■ Communication requirements

Signal level	RS-232C
Sync method	Start-stop transmission
Baud rate	9 600 bps
Parity	None
Character length	8 bit
Stop bit	1 bit
X parameter	None
S parameter	None

■ Basic format

Transmission from the computer begins with STX, then the command, parameter and ETX are sent in this order. Colon (:) is not required when transmitting the command which does not need a parameter.



STX
AD
I 1
I 2
:
C1
C2
C3
:
P1
P2
P3
P4
P5
ETX
Start
ID characters
(2 Bytes)
00 to 99
ID designate
Colon
Command 3 characters
(3 Bytes)
Colon
Parameter
(1 to 5 Bytes)
End

Caution

- When transmitting several commands, wait for a response from the projector before sending the next command. When sending commands without parameters, a colon is not necessary.
- When it is unnecessary to designate an ID code, send the format without the part to ID designate it.

Note

- If a wrong command is received, the projector sends ER401 back to the computer.
- When using control from the remote terminal, commands cannot be received at the serial terminal.
- Projector ID supported on the RS-232C interface is 0 (ALL) to 99.
- The remote control ID is set from 0 to 3. If a command is sent with a projector ID specified, the projector will return answer back only if the ID contained in the command matches the projector ID or the projector ID is set to ALL.

Using the SERIAL

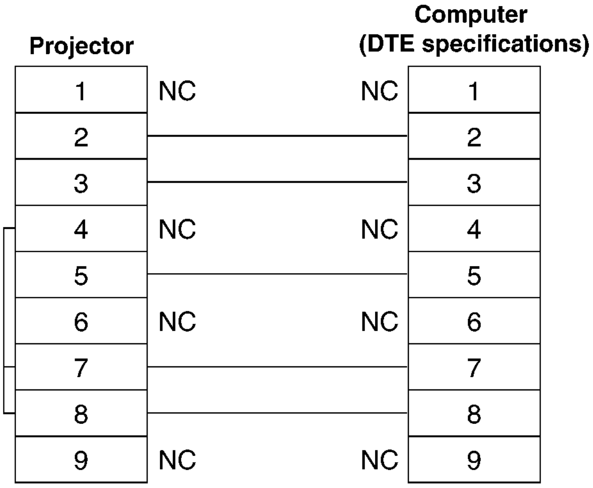
■ Control command

When controlling the projector using a computer, commands are as follows:

Command	Control contents	Remarks
PON	Power ON	During standby mode, commands other than PON are invalid. • While the lamp is ON and being controlled, the PON command is invalid. • After turning the lamp OFF, if the PON command is sent during cooling fan operation, lighting control will function for approximately 40 seconds after turning OFF to protect the lamp.
POF	Power OFF	
AVL	Volum	Parameter 000 = Adjustment value 0 ⋮ ⋮ 063 = Adjustment value 63
AMT	Mute (audio mute)	Parameter 0 = Mute (audio mute) off 1 = Mute (audio mute) on
IIS	Switch input modes	Parameter VID = VIDEO SVD = S-VIDEO RG1 = RGB1 RG2 = RGB2 DVI = DVI
ORF	Switch RGB 1 · 2 input signals	Parameter 0 = RGB 1 = YP_BP_R (Only 1080i input)
Q$S	Check lamp lighting condition	Parameter 0 = Standby 1 = Lamp lighting control 2 = Lamp lit 3 = Lamp off control
QLS	Check lamp lighting condition	Parameter 0 = Lamp 1 and 2 off 1 = Lamp 1 on 2 = Lamp 2 on 3 = Lamp 1 and 2 on
OSI	SET ID	Parameter 0 (ALL) to 99
OFZ	Freez	Parameter 0 = Freeze off 1 = Freeze on
OMN	Menu	
OEN	Enter	
OCU	Cursor up	
OCD	Cursor down	
OCL	Cursor left	
OCR	Cursor right	
OAS	Auto setup	
OSH	Shutter	
DZU	D.Zoom up	
DZD	D.Zoom down	
FC1	Function 1	

■ Cable specifications

< Connecting to a computer >



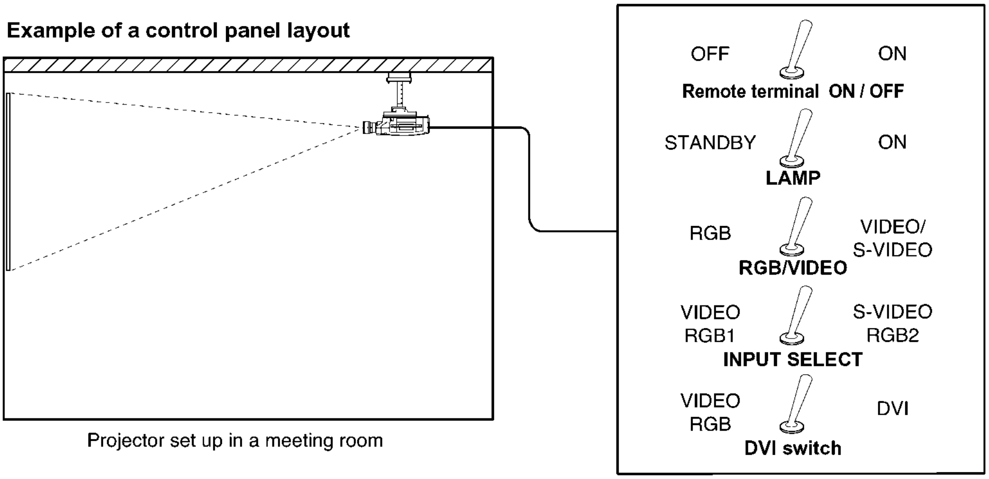
■ USB contorol

The same control as RS-232C can be performed using USB. Need to prepare device driver and control software.

Using the remote terminal

Using the remote terminal built into this projector, it is possible to operate the projector from an external location from where infrared remote control signals cannot be received, by using a remote control panel.

Example of a control panel layout


OFF
ON
Remote terminal ON / OFF
STANDBY
ON
LAMP
RGB
VIDEO/
S-VIDEO
RGB/VIDEO
VIDEO
RGB1
S-VIDEO
RGB2
INPUT SELECT
VIDEO
RGB
DVI
DVI switch

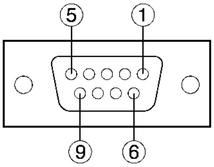
Projector set up in a meeting room

Control panel located in a different room

Pin assignment and control

Short pin 1 and pin 9 when controlling.

D-Sub 9-pin (female) external appearance



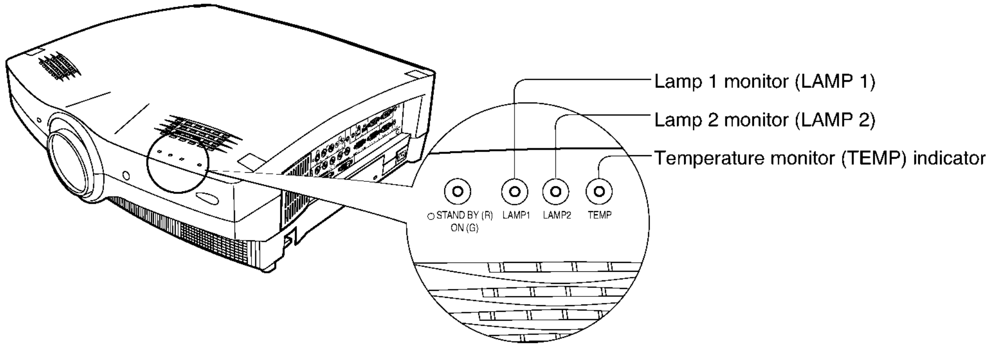
Pin No.	Name	Description	
		Short with pin ①	Open
⑨	Remoto terminal ON / OFF	On	Off
②	Lamp	On	Off (standby)
③	RGB/VIDEO	VIDEO	RGB
⑤	Switch input modes	S-VIDEO (When ③ is VIDEO)	VIDEO (When ③ is VIDEO)
		RGB2 (When ③ is RGB)	RGB1 (When ③ is RGB)
⑥	Switch DVI modes	DVI (When ③ is RGB)	VIDEO (When ③ is VIDEO) RGB (When ③ is RGB)

Note

- The “POWER”, “RGB” and “VIDEO” buttons on the remote control and projector will not operate when pins 1 and 9 are shorted. RS-232C commands will also be ignored.
- Do not short pins. 1, 2, 3, 5 or 6 when pin 9 is open. If this is done, the projector will ignore signals from the remote control.

Indication of lamp monitor

This projector is equipped with 3 indicators to show when a lamp needs replacement or there is an abnormal internal temperature. These lamps flash or light up to indicate a problem.
Turn the power off and follow the steps below.



(Rear view of projector)

Indicator	Display	Condition	Check	Measures
Temperature monitor ◎ TEMP	Red lamp lit (lamp unit lit)	The internal temperature is too high.	• Is something blocking the vent?	• Remove the object blocking the vent.
	Red lamp flashing (lamp unit not lit)	The lamp unit has automatically turned off (standby mode) because the internal temperature was too high.	• Has the projector been operating in a hot location? • Is the air filter clogged?	• Use the projector only in an environment having a temperature of 0 °C to 40 °C and humidity of 20% to 80% (with no condensation). • Turn the power off by following the steps on page 23 and clean the air filter. (See page 41)
	Red lamp lit (Lamp unit not lit)	The lamp unit has automatically turned off (standby mode) because of a high temperature or sudden rise in internal temperature.		
Lamp monitor ◎ ◎ LAMP1 LAMP2	Red lamp lit	It is time to replace the lamp unit.	Is replace lamp displayed on the screen when the power is turned on?	Lights when lamp runtime exceeds 1800 hours. Have your dealer replace the lamp unit.
	Red lamp flashing	Detected the Lamp curcuit abnormal condition.	Are you turning the power back on immediately after it has been turned off?	Wait until the light source lamp cools off before turning the power back on.
			There is a malfunction in the lamp circuit	Turn the power off by following the steps on page 23 and consult your dealer.

Caution

- To solve any problems that the TEMP and LAMP monitor show, first turn the power off by following the steps on page 23.
- If the main power turns off after the TEMP monitor flashes, the projector has malfunctioned. Please consult your dealer.

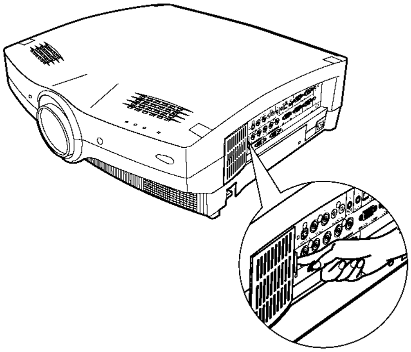
Cleaning and replacing the air filter

If too much dust accumulates on the air filter, the internal temperature of the projector will rises. Eventually the TEMP indicator will flash and the power turn off.
Clean the air filter approximately every 100 hours of use, although more frequent cleaning may be necessary depending on the environment.

■ Cleaning method

1. Turn the Main Power off and remove the power plug.
Turn the power off by following the steps on page 23, and remove the power plug.

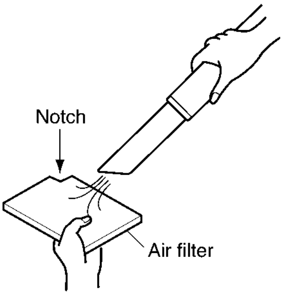
2. Remove the air filter cover.
Remove the air filter cover by pushing down on the tab and pulling forward.



3. Clean the air filter.
Remove accumulated dust using a vacuum cleaner.

Caution

- Be careful not to suck the air filter into the vacuum cleaner.



4. Attach the air filter and cover.
Place an air filter inside the air filter cover, and replace the cover by reversing the step described in (2).

Caution

- Place the air filter aligning the notch toward the upper right direction.
- Do not operate the projector without the air filter.
  If the projector is operated without the air filter, dust will enter the unit and may cause a malfunction.

Note

- If dust cannot be removed with a vacuum cleaner, it is time to replace the filter. Please consult your dealer. Replace the air filter when replacing the lamp unit.

Replacing the lamp unit

Caution!

Replacement of the lamp unit should only be carried out by a qualified technician.

Caution!

Replace the lamp unit only after it has completely cooled off.

Notes when replacing the lamp unit:

- The internal pressure of the light source is high,therefore if it is struck by hard objects or dropped,it may cause damage.Be careful when handling.
- Handle the old lamp unit with care as it is easily broken.
- A Philips screwdriver is necessary when replacing the lamp unit.Be careful not to slip when using the screwdriver.

Caution

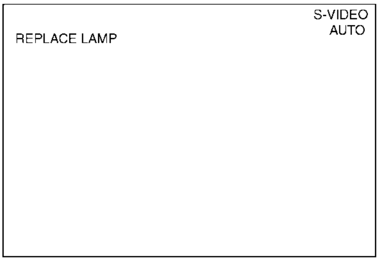
- The lamp unit is sold separately.Please consult the service/parts center at your dealer.
  Lamp unit model number:ET-LAL6500 (1 lamp)ET-LAL6500W (2 lamps)
- Lamps other than those indicated above must not be used with this projector.Be sure to use the specified lamp.

■Lamp replacement period

The light source lamp of this projector has a life cycle of 2000 hours (Lamp power---hi,Lamp selection---dual setting).However,this duration may be reduced depending on the usage of the projector-the frequency in which the light is turned on and of its intervals affect the life of the lamp.Therefore it is recommended that a spare lamp be made available before 2000 hours have elapsed.If the lamp unit is not replaced after 1800 hours, the power will automatically shut off after 2000 hours and enter standby mode.If the power is turned on after 2000 hours,it will turn off automatically after approximately 10 minutes and enter standby mode.

- **Display after 1800 hours**

  The lamp monitor indicators (LAMP 1 or LAMP2) will light after the lamp unit runtime has elapsed 1800 hours even during standby mode.
  An on-screen message indicating lamp replacement is necessary will be displayed on the screen 30 seconds.
  (This on-screen message will disappear after 30 seconds or the projector operation buttons remote control buttons are operated.)
  This on-screen message does not disappear, unless a menu buttons or sound adjustment (VOL +/-)buttons will be pushed,if it reaches in 2000 hours.



REPLACE LAMP

S-VIDEO
AUTO

■ Lamp unit replacement steps

Caution

- After 2000 hours of operating the same lamp, it is only possible to operate the unit for approximately 10 minutes. Replace the lamp and steps 8 to 14 must be completed within 10 minutes:

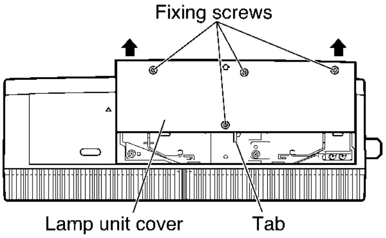
1. Turn the power off by following the steps on page 23, remove the power plug and confirm that the surroundings of the lamp unit have cooled off.

2. Using a Philips screwdriver, remove the 4 screws on the lamp unit cover located on the rear of the projector.

3. Remove the lamp unit cover by pulling it forward.

Caution

- Be careful not to break the tab located in the center of the lower side of the lamp unit cover.

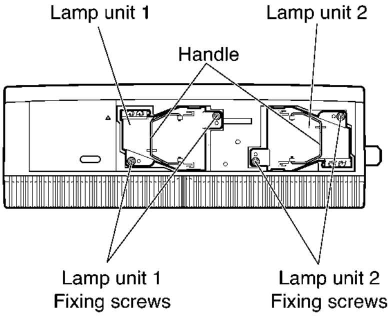

Fixing screws
Lamp unit cover
Tab

4. Use a Phillips screwdriver to loosen the two lamp unit fixing screws until the screws turn freely. Then hold the handle of the lamp unit and gently pull it out from the projector.

Caution

The lamp unit will be hot after it has been used.

You might get burned if you touch it while it is still hot.


Lamp unit 1
Lamp unit 2
Handle
Lamp unit 1
Fixing screws
Lamp unit 2
Fixing screws

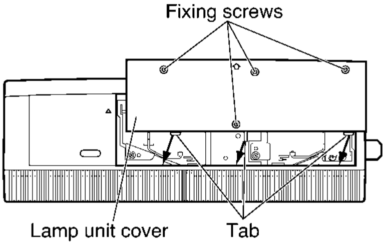
5. Install the new lamp unit.

6. Use a Phillips screwdriver to securely tighten the 2 lamp unit fixing screws.

7. Install the lamp unit cover, and then use a Phillips screwdriver to securely tighten the lamp unit cover fixing 4 screws.

Caution

- Firmly install the lamp unit and lamp unit cover. If not installed firmly, a protection circuit will function and the power will not be turned on.


Fixing screws
Lamp unit cover
Tab

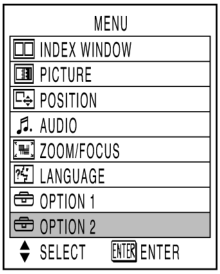
8. Insert the power cord plug into the wall outlet and then press the MAIN POWER switch.

Caution

- If the power does not turn on even after turning the MAIN POWER switch “O”, turn the MAIN POWER “I”, confirm that the lamp unit and door are installed correctly, and turn on again.

9. Press the “POWER” button so that a picture is projected onto the screen.

10. Press the “MENU” button to display the MAIN MENU screen, and then press the ▲ and ▼ buttons to move the cursor to select “OPTION2”.



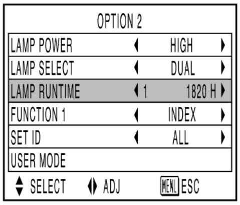
11. Press the “ENTER” button to display the “OPTION2” screen, and then use the ▲ and ▼ buttons to select “LAMP RUNTIME”.

12. Press and hold the “ENTER” button on the projector or the remote control for approximately 3 seconds.

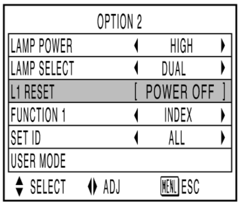
The “LAMP RUNTIME” will change to “L1 RESET [POWER OFF]” or “L2 RESET [POWER OFF]”.

Note

- If the “MENU” button is pressed, the lamp time resetting screen will be cancelled.



OPTION 2
LAMP POWER ◀ HIGH ▶
LAMP SELECT ◀ DUAL ▶
LAMP RUNTIME ◀ 1 1820 H ▶
FUNCTION 1 ◀ INDEX ▶
SET ID ◀ ALL ▶
USER MODE



OPTION 2
LAMP POWER ◀ HIGH ▶
LAMP SELECT ◀ DUAL ▶
L1 RESET [POWER OFF]
FUNCTION 1 ◀ INDEX ▶
SET ID ◀ ALL ▶
USER MODE

13. Press the ▲ and ▼ buttons to select for replacement lamp setting.

L1 RESET: Replace the LAMP1
L2 RESET: Replace the LAMP2
L1+L2 RESET: Replace the LAMP1 & LAMP2

14. Press the POWER button to turn off the power.

This will reset the cumulative usage time for the lamp unit to zero.

Appendix

<Compatible RGB/YP_BP_R Signals>

The following table specifies the types of RGB/YP_BP_R signals compatible with the projector.
If signals other than this are applied, the projector may produce anything from a distorted display to simply the default (blue or black) background.

Resolution	Compatible Signal		
	H x V Pixels	H. Scanning Frequency (kHz)	V. Scanning Frequency (Hz)
VGA400	640 x 400	24.8	56.4
	640 x 400	31.5	70.1
VGA480	640 x 480	31.5	59.9
	640 x 480	35.0	66.7
	640 x 480	37.9	72.8
	640 x 480	37.5	75.0
	640 x 480	43.3	85.0
SVGA	800 x 600	32.1	51.0
	800 x 600	35.2	56.3
	800 x 600	37.9	60.3
	800 x 600	48.1	72.1
	800 x 600	46.9	75.0
	800 x 600	53.7	85.1
XGA	1 024 x 768	48.4	60.0
	1 024 x 768	56.5	70.1
	1 024 x 768	60.0	75.0
	1 024 x 768	65.5	81.6
	1 024 x 768	68.7	85.0
	1 024 x 768i	35.5	86.8
	1 024 x 768	80.7	100.8
	1 024 x 768	94.0	120.0
MXGA	1 152 x 864	63.9	70.0
	1 152 x 864	67.5	75.0
	1 152 x 864	77.1	85.0
	1 120 x 750	50.1	60.1
	1 120 x 750i	32.6	80.0
SXGA	1 280 x 1 024	52.4	50.0
	1 280 x 1 024	64.0	60.0
	1 280 x 1 024	72.4	66.3
	1 280 x 1 024	78.2	71.7
	1 280 x 1 024	80.0	75.0
	1 280 x 1 024*	91.2	85.0
	1 280 x 1 024i	46.2	86.0
	1 280 x 1 024i	47.6	88.9
UXGA	1 600 x 1 200	75.0	60.0
	1 600 x 1 200	87.5	70.0
	1 600 x 1 200	93.8	75.0
MAC16	832 x 624	49.7	74.6
MAC21	1 152 x 870	68.6	75.0
HDTV	1 920 x 1 035i	33.8	60.0
720p	1 280 x 720	45.0	60.0
NTSC	768 x 480i	15.7	59.9
PAL	768 x 576i	15.6	50.0
480p	720 x 483	31.5	59.9

* PT-L6600U ONLY

Note

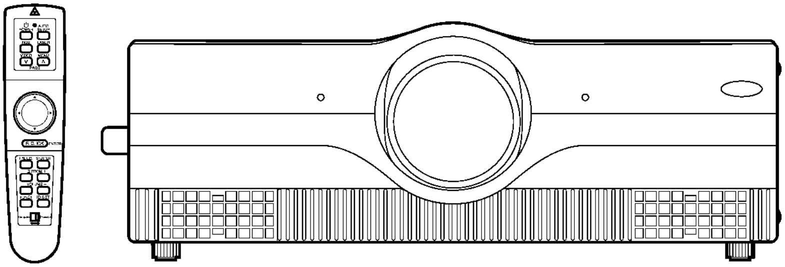
- The PT-L6600U has a pixel resolution of 1 366 x 1 024. Pixel data exceeding this resolution is converted into 1 366 x 1 024 pixels.
- The PT-L6500U has a pixel resolution of 1 024 x 768. Pixel data exceeding this resolution is converted into 1 024 x 768 pixels.
- Suffix "i" denotes interlaced scanning.

Panasonic

LCD Projector Commercial Use

Guide to Lens Installation

Model No. PT-L6500UL
PT-L6600UL
PT-L6500EL
PT-L6600EL

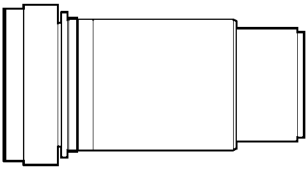
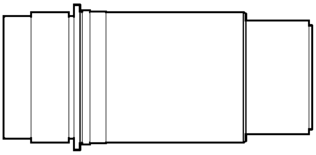
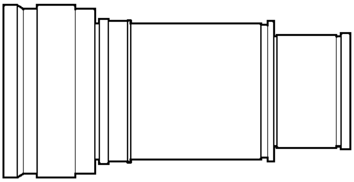
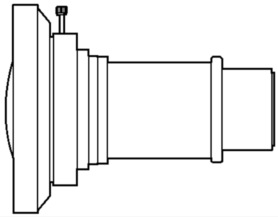


Notes:

- At this service manual, it mentions only the Guide to Lens Installation of PT-L6500UL/L6600UL as the representative of PT-L6500EL/L6600EL.
- Because some pages in Guide to Lens Installation are used for this section without change, note that the page numbers shown in sentences of this section are those of Guide to Lens Installation.

OPTIONAL LENS

The projector comes as standard with no projection lens supplied. Choose the appropriate optional projection lens from the following list:

Lens type (name)	Illustration	Description
Short focus zoom lens (ET-LE101)		Choose this lens when only a limited projection distance is required, for example, relatively small home theater installations.
Medium focus zoom lens (ET-LE200)		Lens with medium focal distance between shot focus lens and long focus lens.
Long focus zoom lens (ET-LE300)		Choose this lens for large halls or theaters.
Fixed focus lens (ET-LE050)		Lens with short focal distance for rear projection. It is only capable of right-angle projection. Since it has influence on a focus, the lens shift function is not used.

INDIVIDUAL LENS-RELATED FEATURES

The PT-L6500UL / L6600UL and PT-L6500EL / L6600EL is an optional lens version of the PT-L6500U / L6600U and PT-L6500E / L6600E projector. For details, refer to the table below. Note that the descriptions in this table may differ slightly from those given in the user's manual supplied with the projector:

Projector model No.	Zoom/Focus adjustment
PT-L6500UL PT-L6600UL PT-L6500EL PT-L6600EL	Manual adjustment
PT-L6500U PT-L6600U PT-L6500E PT-L6600E	Powered zoom and focus adjustment is achieved by remote control or with the projector's control buttons. Focus may have only manual adjustment.

HANDLING CAUTIONS

- Before mounting or replacing the projection lens, check to make sure that the projector has been turned off.
- Do not power up the projector with no lens installed.
- Whenever removing the lens from the projector, be sure to first remove the lens setscrew.
- While carrying the projector, exercise care not to jolt the lens by accidental contact with heavy objects. Remove the lens whenever transporting the projector.

INSTALLING THE LENS

1. Remove the lens cap from the projector, and then carefully insert the optional lens into the lens mount.

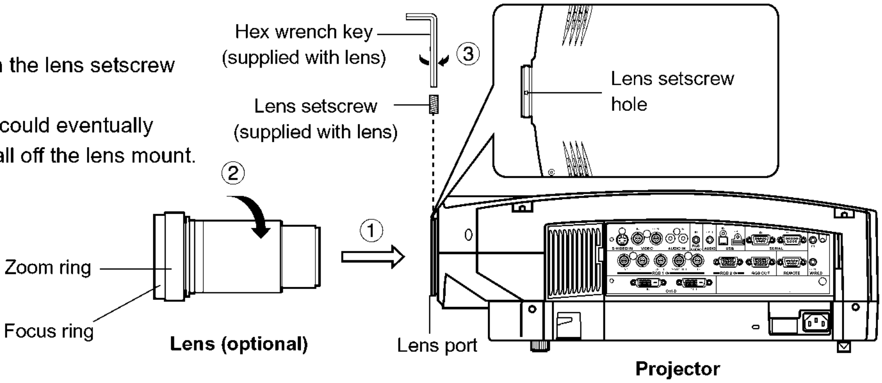
Note

- Insert the lens in alignment with the projector's optical axis. Insertion at a skewed angle may damage the lens or lens mount.

2. Align the screw thread of the lens with that of the lens mount and turn the lens clockwise until it sits in lens mount firmly.
3. Screw the lens setscrew (supplied with the lens) into the screw hole at the top of the lens mount, and tighten with the hex wrench key (supplied with the lens).

Note

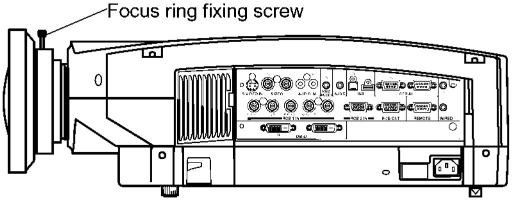
- Be sure to tighten the lens setscrew firmly.
  A loose setscrew could eventually allow the lens to fall off the lens mount.



ADJUSTING THE LENS

Perform focus and picture size adjustments while viewing images on the screen:

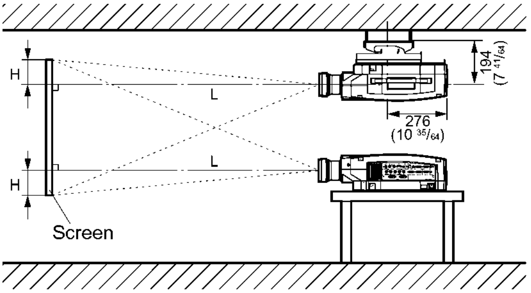
1. Adjust the focus with the focus ring.
2. Fit the picture size to the screen size with the zoom ring.
   - When using the fixed focus lens (ET-LE050), fit picture size to the screen by moving the projector back and forth.
3. Perform fine focus adjustment with the focus ring.
   - When using the fixed focus lens (ET-LE050), perform the fine focus adjustment, and then lock the focus ring with focus ring set screw.



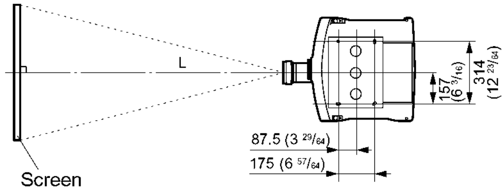
PROJECTION DISTANCE AND PROJECTOR POSITIONING

The following figures and table describe projection distances in relation to screen size. With the optional zoom lens, projection distance can be varied without having to reposition the projector. Vertical picture skew can also be compensated for with the projector's lens shift feature (refer to the user's manual supplied with the projector). Make fine adjustments while viewing images on the screen.

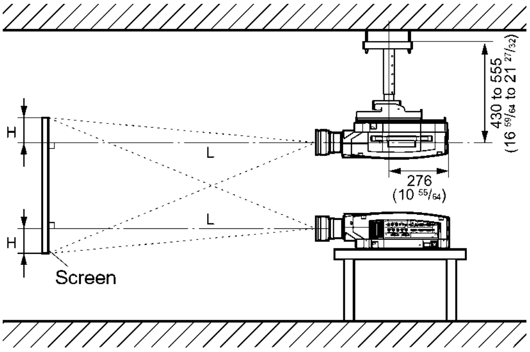
Side view (ceiling mount bracket in this figure: ET-PKL6500S)



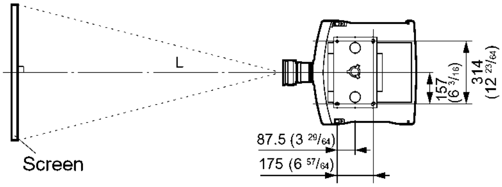
Plan view



Side view (ceiling mount bracket in this figure: ET-PKL6500)



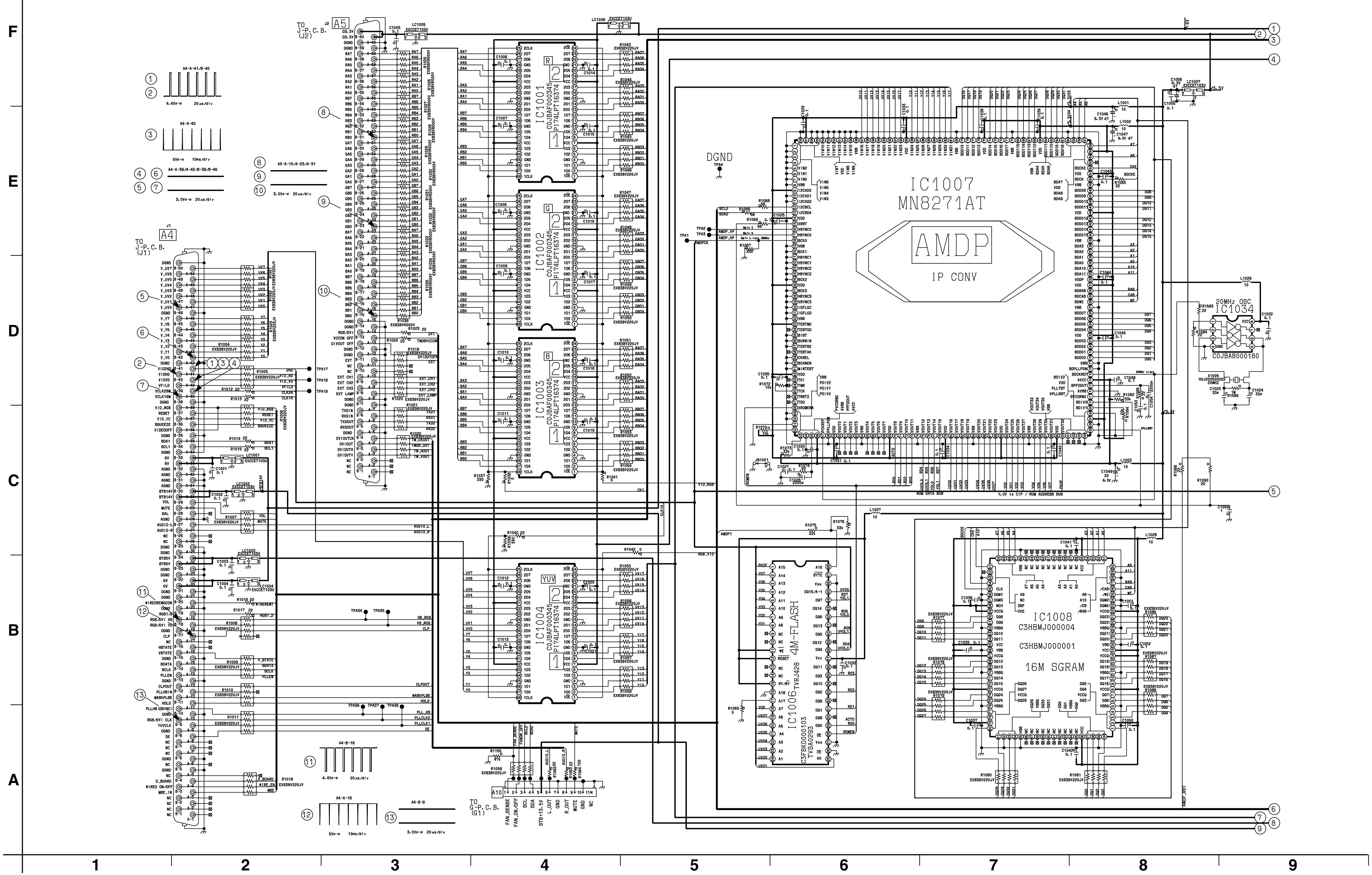
Plan view



unit : m [ ] : foot ( ) : inch

Screen size (Inches diag.)	Projection distance (L)						Allowable range of projector height (H) (screen edge to lens center)
	With ET-LE101		With ET-LE200		With ET-LE300		
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
0.76 (30")	——	1.1 [3'7"]	——	2.6 [8'6"]	2.7 [8'11"]	3.6 [11'10"]	0.02 to 0.22 (7/8 to 8 21/32)
1.02 (40")	1.1 [3'7"]	1.4 [4'7"]	2.1 [6'11"]	3.4 [11'2"]	3.6 [11'10"]	4.8 [15'9"]	0.03 to 0.30 (1 3/16 to 11 13/16)
1.27 (50")	1.3 [4'4"]	1.7 [5'7"]	2.6 [8'6"]	4.3 [14'1"]	4.4 [14'5"]	5.8 [19']	0.04 to 0.38 (1 9/16 to 14 61/64)
1.52 (60")	1.6 [5'2"]	2.1 [6'11"]	3.1 [10'2"]	5.2 [17'1"]	5.4 [17'9"]	7.1 [23'3"]	0.05 to 0.45 (1 49/64 to 17 23/32)
2.03 (80")	2.2 [7'2"]	2.8 [9'2"]	4.3 [14'1"]	6.9 [22'7"]	7.2 [23'7"]	9.5 [31'2"]	0.06 to 0.60 (2 23/64 to 23 10/16)
2.54 (100")	2.7 [8'11"]	3.6 [11'10"]	5.4 [17'8"]	8.7 [28'6"]	8.9 [29'2"]	11.8 [38'9"]	0.08 to 0.76 (2 63/64 to 29 59/64)
3.05 (120")	3.3 [10'10"]	4.3 [14'1"]	6.5 [21'4"]	10.5 [34'5"]	10.7 [35'1"]	14.2 [46'7"]	0.09 to 0.91 (3 37/64 to 35 53/64)
3.56 (140")	3.9 [12'10"]	5.1 [16'8"]	7.5 [24'7"]	12.3 [40'4"]	12.5 [41'1"]	16.6 [54'6"]	0.11 to 1.06 (4 11/64 to 41 47/64)
4.06 (160")	4.4 [14'5"]	5.8 [19']	8.6 [28'2"]	14.1 [46'4"]	14.3 [46'11"]	18.9 [62']	0.12 to 1.21 (4 49/64 to 47 41/64)
4.57 (180")	5.0 [16'5"]	6.6 [21'8"]	9.7 [31'10"]	15.9 [52'2"]	16.1 [52'10"]	21.3 [69'11"]	0.14 to 1.37 (5 25/64 to 53 15/16)
5.08 (200")	5.6 [18'15"]	7.3 [24']	10.9 [35'10"]	17.7 [58'1"]	17.8 [58'5"]	23.6 [77'5"]	0.15 to 1.52 (5 63/64 to 59 27/32)
5.51 (220")	6.1 [20']	8.1 [26'7"]	11.9 [39']	19.5 [64']	19.6 [64'5"]	26.0 [85'4"]	0.17 to 1.67 (6 9/16 to 65 3/4)
6.10 (240")	6.7 [22']	8.8 [28'11"]	13.0 [42'8"]	21.3 [69'11"]	21.4 [70'3"]	28.3 [92'10"]	0.18 to 1.82 (7 11/64 to 71 21/32)
6.60 (260")	7.3 [24']	9.5 [31'2"]	14.1 [46'4"]	23.1 [75'9"]	23.1 [75'9"]	30.7 [100'9"]	0.20 to 1.98 (7 51/64 to 77 61/64)
7.11 (280")	7.8 [25'6"]	10.3 [33'10"]	15.2 [49'11"]	24.9 [81'8"]	24.9 [81'8"]	33.1 [108'7"]	0.21 to 2.13 (8 25/64 to 83 55/64)
7.62 (300")	8.4 [27'6"]	11.0 [36'1"]	16.3 [53'6"]	26.7 [87'7"]	26.7 [87'7"]	35.4 [116'2"]	0.23 to 2.28 (8 63/64 to 89 49/64)

A-P. C. Board TNPH0435 (PT-L6500 SERIES) (1/4)


F
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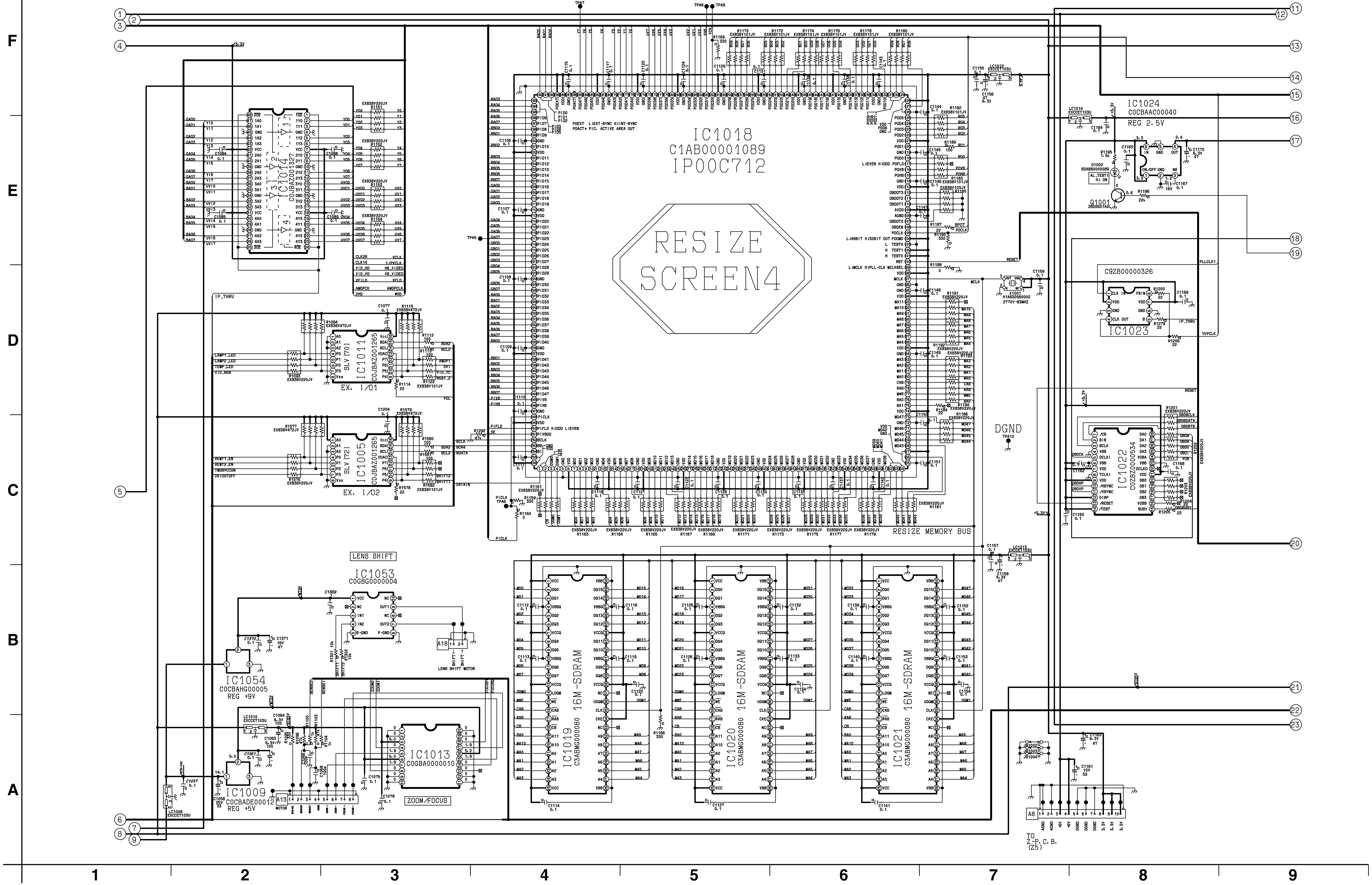
9
TO J-P.C.B. (J2)
A5
TO J-P.C.B. (J1)
A4
TO G-P.C.B. (G1)
A10
IC1001
C0JBAF000345
PI74LPT16374
R
IC1002
C0JBAF000345
PI74LPT16374
G
IC1003
C0JBAF000345
PI74LPT16374
B
IC1004
C0JBAF000345
PI74LPT16374
YUV
IC1007
MN8271AT
AMDP
IP CONV
DGND
20MHz OSC
IC1034
C0JBAB000180
IC1006
4M-FLASH
TVRJ428
C3FBWD000103
TVBA0293
IC1008
C3HBMJ000004
C3HBMJ000001
16M SGRAM
A4-A-41/B-40
4.4Vp-p 20μs/div
A4-A-40
5Vp-p 10ms/div
A4-A-39/A-42/B-38/B-46
3.0Vp-p 20μs/div
A5-A-15/A-23/A-31
3.0Vp-p 20μs/div
A4-B-18
4.4Vp-p 20μs/div
A4-A-18
5Vp-p 10ms/div
A4-B-9
3.0Vp-p 20μs/div
ROM DATA BUS
Y.UV to CIP / ROM ADDRESS BUS

A-P. C. Board TNPH0435 (PT-L6500 SERIES) (2/4)



IC1018
C1AB00001089
IP00C712
RESIZE
SCREEN4
RESIZE MEMORY BUS
IC1024
C0CBAAC00040
REG 2.5V
C9ZB00000326
IC1023
IC1022
C0ZBZ0000534
DGND
TPA10
IC1014
C0JBAZ001327
IC1011
C0JBAZ001265
SLVT01
EX. I/O1
IC1005
C0JBAZ001265
SLVT21
EX. I/O2
LENS SHIFT
IC1053
C0GBG0000004
LENS SHIFT MOTOR
IC1054
C0CBAHG00005
REG +9V
IC1013
C0GBA0000010
IC1009
C0CBADE00012
REG +5V
ZOOM/FOCUS
IC1019
C3ABMG000080 16M-SDRAM
IC1020
C3ABMG000080 16M-SDRAM
IC1021
C3ABMG000080 16M-SDRAM
Q1001
D1002
X1001
TO Z-P.C.B. (Z5)
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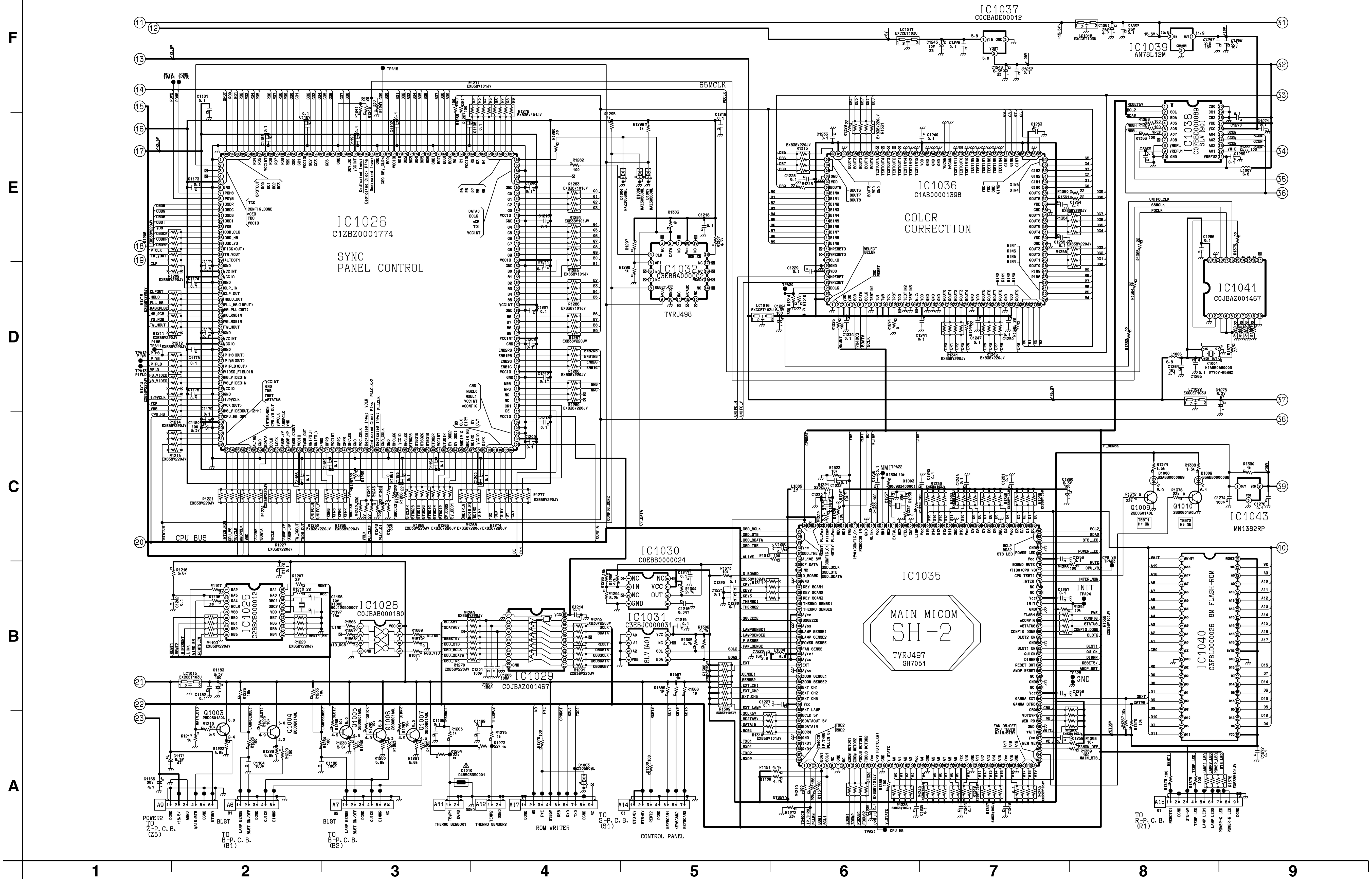
A-P. C. Board TNPH0435 (PT-L6500 SERIES) (3/4)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IC1026
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SYNC
PANEL CONTROL
IC1032
C3EBBA000002
TVRJ498
IC1036
C1AB00001398
COLOR
CORRECTION
IC1037
C0CBADE00012
IC1039
AN78L12M
IC1038
C0FBBD000089
SLV(901)
IC1041
C0JBAZ001467
IC1043
MN1382RP
IC1025
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IC1028
C0JBAB000180
IC1029
C0JBAZ001467
IC1030
C0EBB0000024
IC1031
C3EBJC000031
SLV(A0)
IC1035
MAIN MICOM
SH-2
TVRJ497
SH7051
IC1040
C3FBLD000026 8M FLASH-ROM
65MCLK
CPU BUS
INIT
NMI
GND
Q1003
Q1004
Q1005
Q1006
Q1007
Q1009
Q1010
A9
POWER2
TO
Z-P.C.B.
(Z5)
A6
BLST
TO
B-P.C.B.
(B1)
A7
BLST
TO
B-P.C.B.
(B2)
A11
THERMO SENSOR1
A12
THERMO SENSOR2
A17
ROM WRITER
TO
S-P.C.B.
(S1)
A14
CONTROL PANEL
A15
TO
R-P.C.B.
(R1)
TPA21 CPU H8
⑪
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